

AN EXPERIMENTAL INVESTIGATION OF COOLANT
MIXING IN A WIRE WRAPPED LMFBR
BLANKET SUBASSEMBLY

[pt.2]

Carl Henry Oosterman

WILEY KNOX LIBRARY
NAVAL POSTGRADUATE SCHOOL
MONTEREY, CALIFORNIA 93940

[pt. 2]

AN EXPERIMENTAL INVESTIGATION OF
COOLANT MIXING IN A WIRE WRAPPED LMFBR
BLANKET SUBASSEMBLY

by

CARL HENRY OOSTERMAN

B.S., United States Naval Academy
1969

M.C.E., University of Delaware
1970

SUBMITTED IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR THE DEGREES OF
MASTER OF SCIENCE IN NUCLEAR ENGINEERING
AND NAVAL ENGINEER

at the

MASSACHUSETTS INSTITUTE OF
TECHNOLOGY

June, 1975

Thesis
© 5832
pt-2

1979

INVESTIGATION OF
THE EFFECTS OF A VIBRATING
MACHINE ON THE
HEALTH OF OPERATORS

BY
J. H. HARRIS

AND
J. H. HARRIS

DEPARTMENT OF
INDUSTRIAL ENGINEERING

UNIVERSITY OF
SOUTH ALABAMA
1979

PH.D. DISSERTATION
1979

IN THE
SCHOOL OF ENGINEERING

OF THE UNIVERSITY OF SOUTH ALABAMA

Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

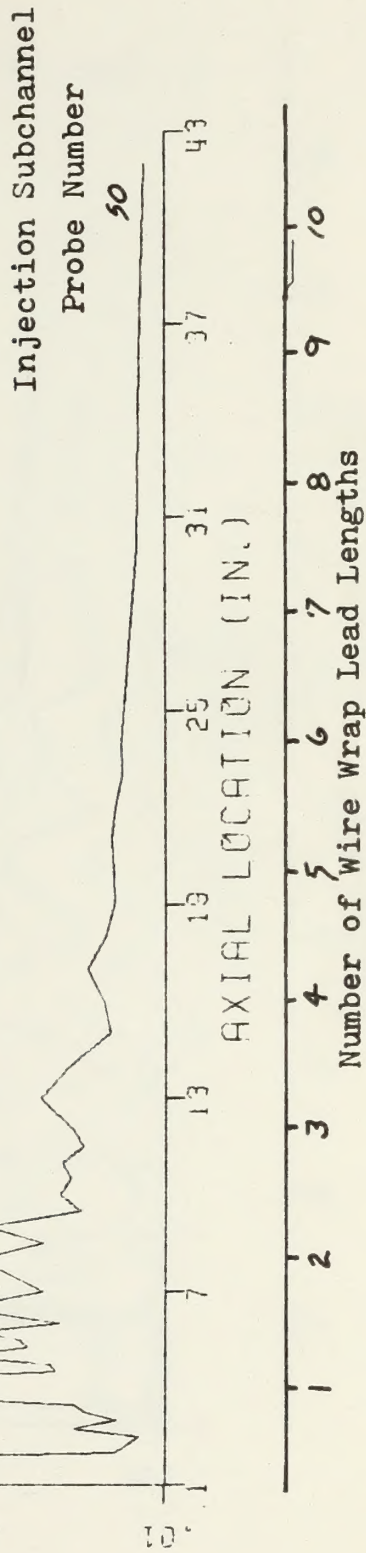


Figure 4-44

Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

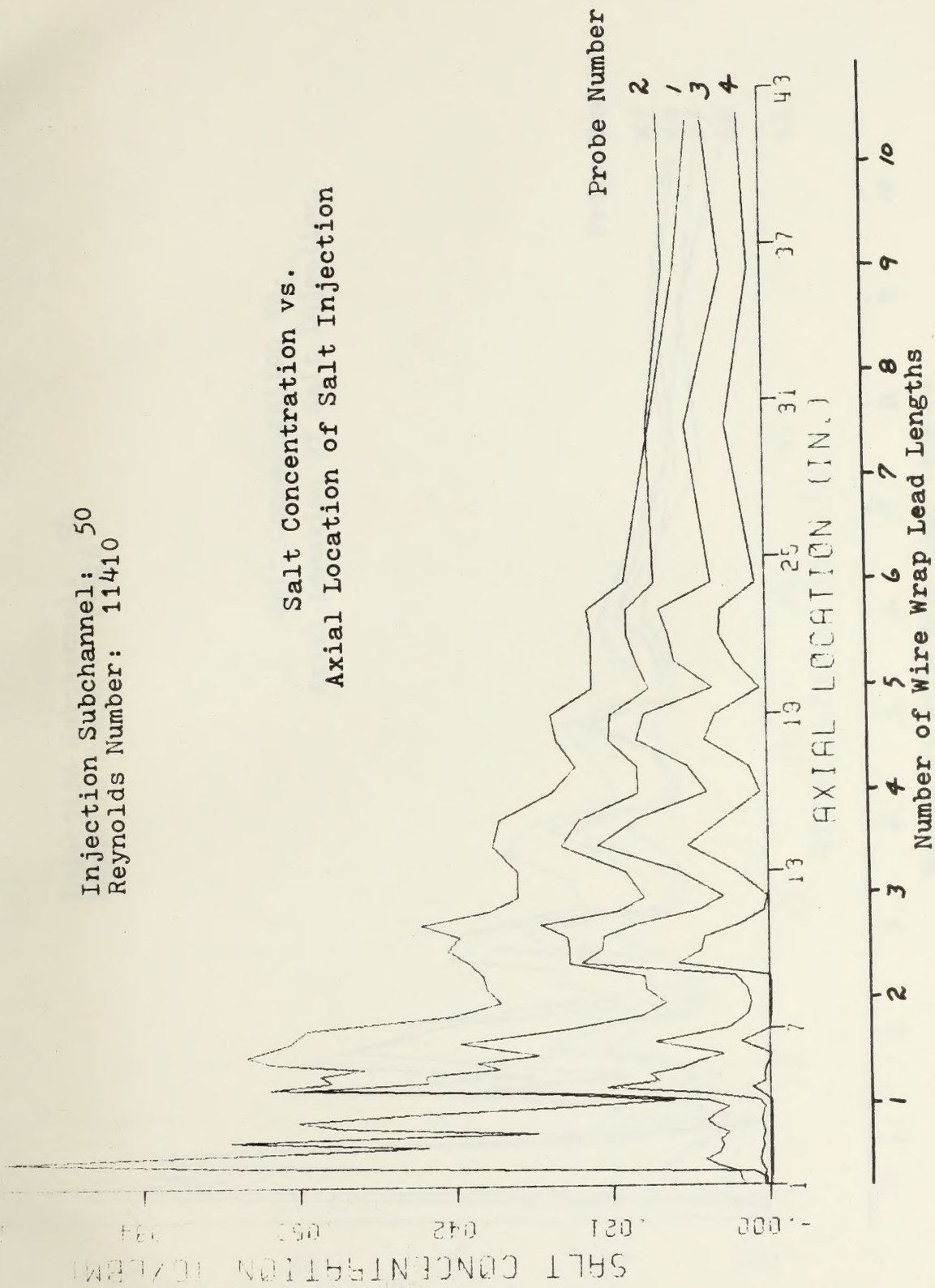


Figure 4-45

Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

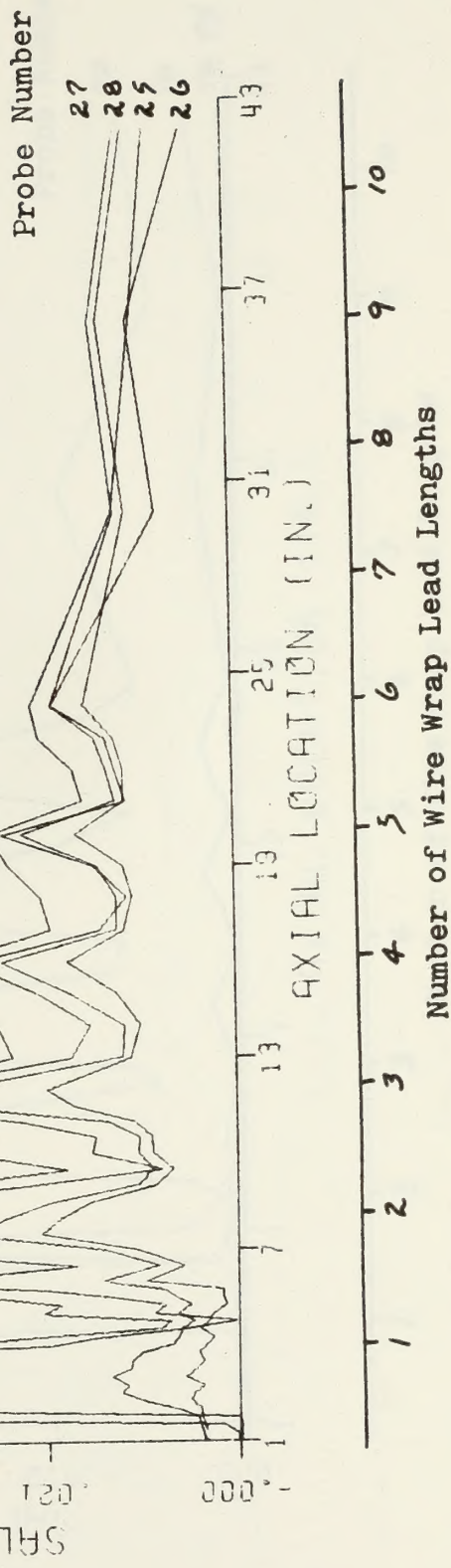


Figure 4-46

Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

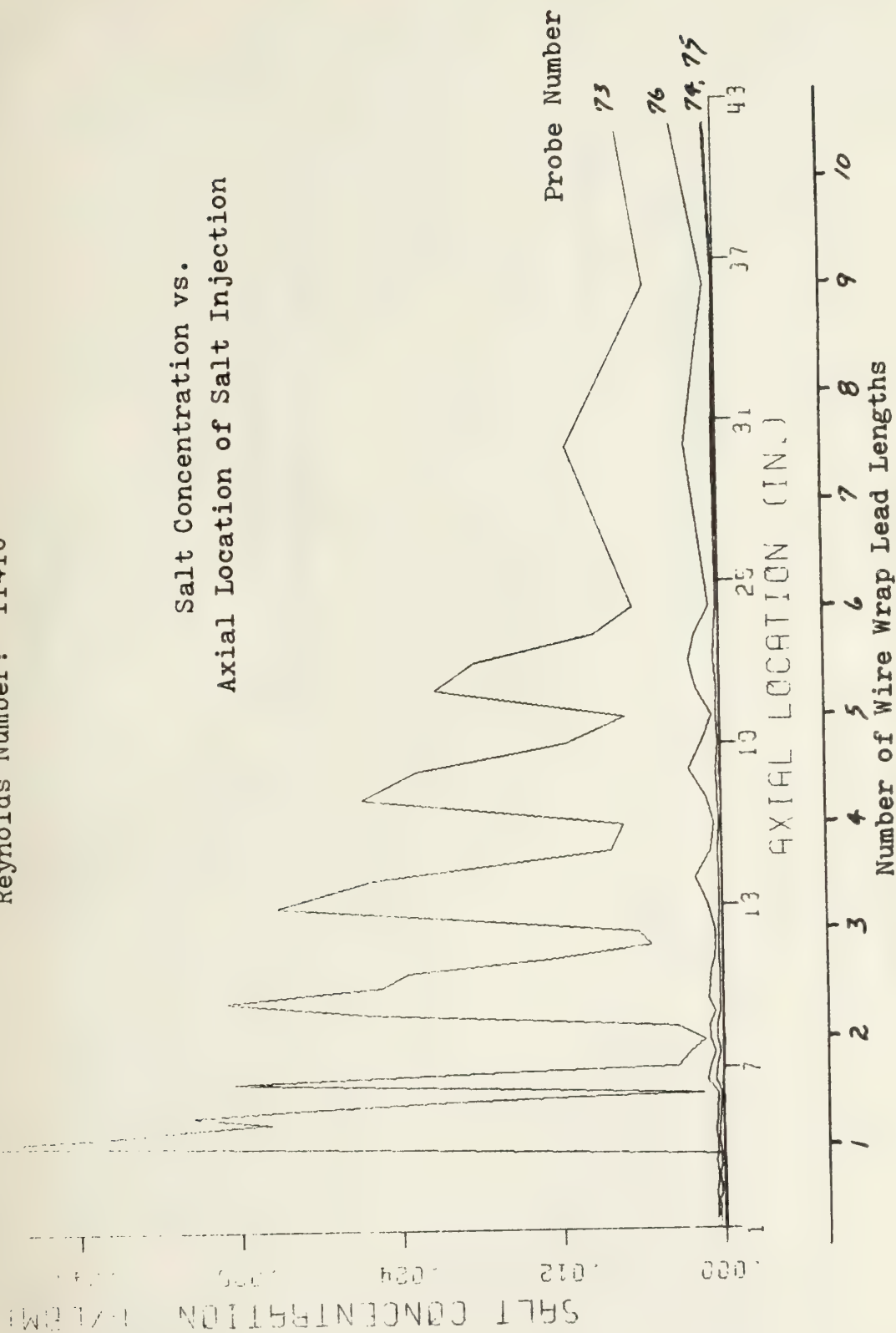


Figure 4-47

Injection Subchannel: 50
Reynolds Number: 11410

Salt Concentration vs.
Axial Location of Salt Injection

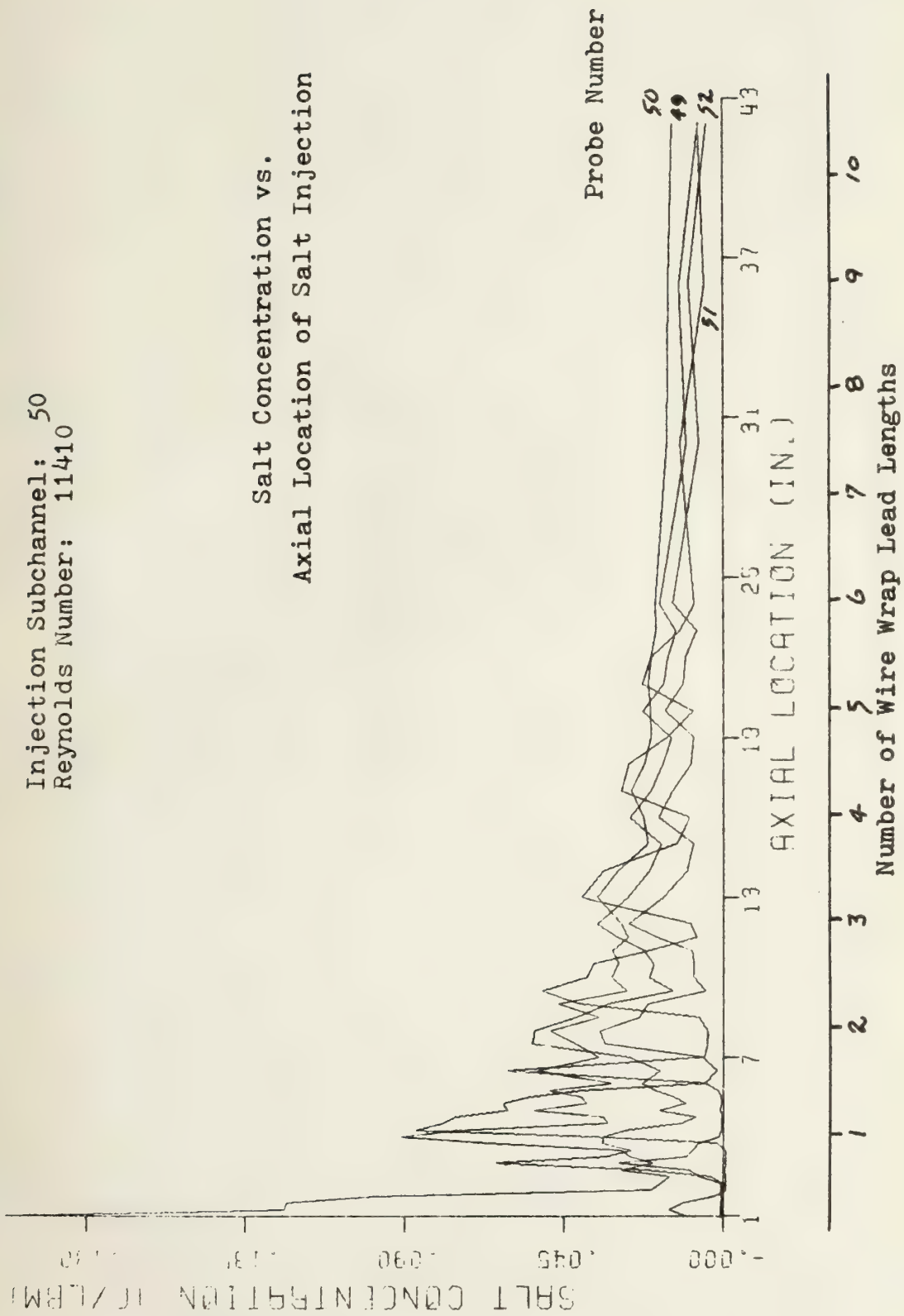


Figure 4-48

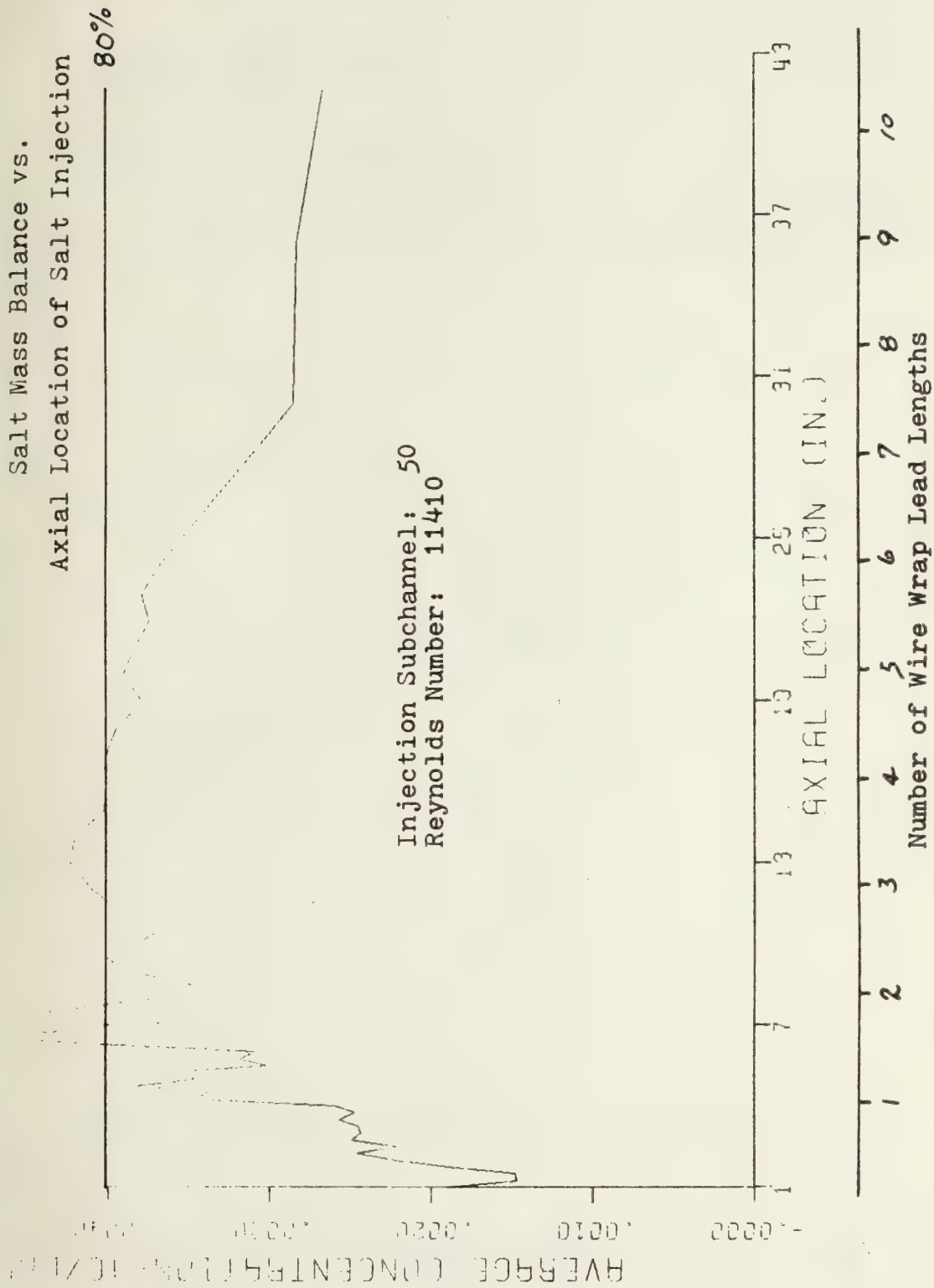


Figure 4-49

Reynolds Number: 11410

Injection Subchannel: 50 (underlined)

AXIAL POSITION # 2

AXIAL LOCATION = 36.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0028 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

		-1		2		3		0		0		-1	
		1		0		2		0		3		0	
			0		1		0		0		2		
		0		10		3		4		0		0	0
			1		6		3		2		0		0
5		13		8		9		3		0		0	0
	0		13		14		4		1		0		0
0		9		14		10		11		5		0	0
	2		6		14		<u>10</u>		13		1		0
													-1
-1													-1
	0		14		9		15		5		0		0
0		3		14		12		5		0		0	10
													-3
		7		3		8		4		2		0	0
0			4		4		13		6		0		0
													1
		0		10		10		1		0		0	
	0				2		2		0		0		0
		0		1		0		5		3			
		1		0		0		6		0		0	
		-1		1		-1		0		0		-1	

See Figure 4-40a for Wire Wrap Orientation

Figure 4-50



AXIAL POSITION # 4

AXIAL LOCATION = 24.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0037 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

		-1	2	3	0	3	-1		
		1	0	2	0	4	0		
		1	2	0	0	3			
	0	11	8	5	1	0	0	0	
	1	10	6	3	0	0			
5	14	15	17	6	0	0	0	0	
1	15	17	9	2	0	0	0		
0	9	16	19	18	6	0	0	0	3
1	10	19	<u>22</u>	14	1	0	0	0	
-1									-1
0	0	14	14	19	6	0	0	0	6
0	3	15	18	8	0	0	0	10	0
	5	2	9	7	2	0	0	0	
0	3	3	13	8	0	0	0	4	
	0	6	9	1	0	0	0		
0	0	1	1	0	0	0	0		
	0	0	0	0	4	3			
	1	0	0	5	0	0			
	-1	0	0	0	-1	-1			

Reynolds Number: 11410

Injection Subchannel: 50 (underlined)

Figure 4-51

1070000

•

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

3	-1
	0
3	
0	0
	0
	0
0	0
0	0
	0
	-1
0	0
0	8
0	0
	0
	4
	0
0	0
3	
	0
-1	-1

AXIAL LOCATION = 10.00 INCHES

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

		-1		1		2		0		2		-1		
		0		0		0		0		3		0		
		0		0		0		0		0		3		
		0		5		0		0		0		0		0
		0		0		0		0		0		0		0
4		0		0		6		4		0		0		0
0		0		3		12		3		0		0		0
0		2		9		15		42		22		4		0
0		0		0		10		28		26		8		0
-1														-1
0		0		2		8		31		25		0		2
0		0		0		12		20		38		0		0
		2		0		0		8		18		12		0
0		0		0		0		14		34		2		0
		0		0		4		7		0		0		0
0		0		0		0		0		0		0		0
		0		0		0		0		4		3		0
		0		0		0		0		3		0		0
		-1		0		0		0		0		-1		-1

Injection Subchannel: 50 (underlined)

Figure 4-54

AXIAL POSITION # 22

AXIAL LOCATION = 9.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0039 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

			-1		2		2		0		3		-1	
			0		0		0		0		5		0	
				0		0		0		0		3		
		0		5		0		0		0		0		0
			0		0		0		0		0		0	
4		3		0		3		0		0		0		0
	0		3		11		1		0		0		0	
0		2		8		23		38		4		0		0
	0		0		10		<u>33</u>		16		0		0	3
-1														-1
	0		0		4		21		46		26		0	17
		0		14		32		40		0		0	12	2
		3		0		24		27		10		0	0	
	0		0		5		23		25		0		0	5
		0		4		9		2		0		0	0	
		0		0		0		1		0		0	0	
			0		0		0		0		4		4	
		0		0		0		0		3		0	0	
			-1		0		0		0		-1		-1	

Reynolds Number: 11410

Injection Subchannel: 50 (underlined)

Figure 4-55

AXIAL POSITION # 28

AXIAL LOCATION = 6.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0031 G-SALT/LBM-WATER

SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

			-1	0	0	0	0	0	-1		
		0	0	0	0	0	2	2	0		
			0	0	0	0	0	0	0		
	0	4	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0		
0	0	1	5	43	15	0	0	0	0	0	
	0	4	27	27	0	0	0	0	0		
0	0	1	10	38	69	5	0	0	0	0	
	0	0	14	<u>64</u>	30	0	0	0	0	0	
-1											-1
	0	2	5	31	1	0	0	0	1		
0	0	6	23	4	0	0	0	0	6	0	
	2	0	1	0	0	0	0	0	0		
	0	0	0	4	3	0	0	0	0		
	0	0	0	2	0	1	0	0	0		
	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	1	3	0			
		0	0	0	0	0	0	0			
		-1	0	0	0	0	0	-1			

Reynolds Number: 11410

Injection Subchannel: 50 (underlined)

Figure 4-57

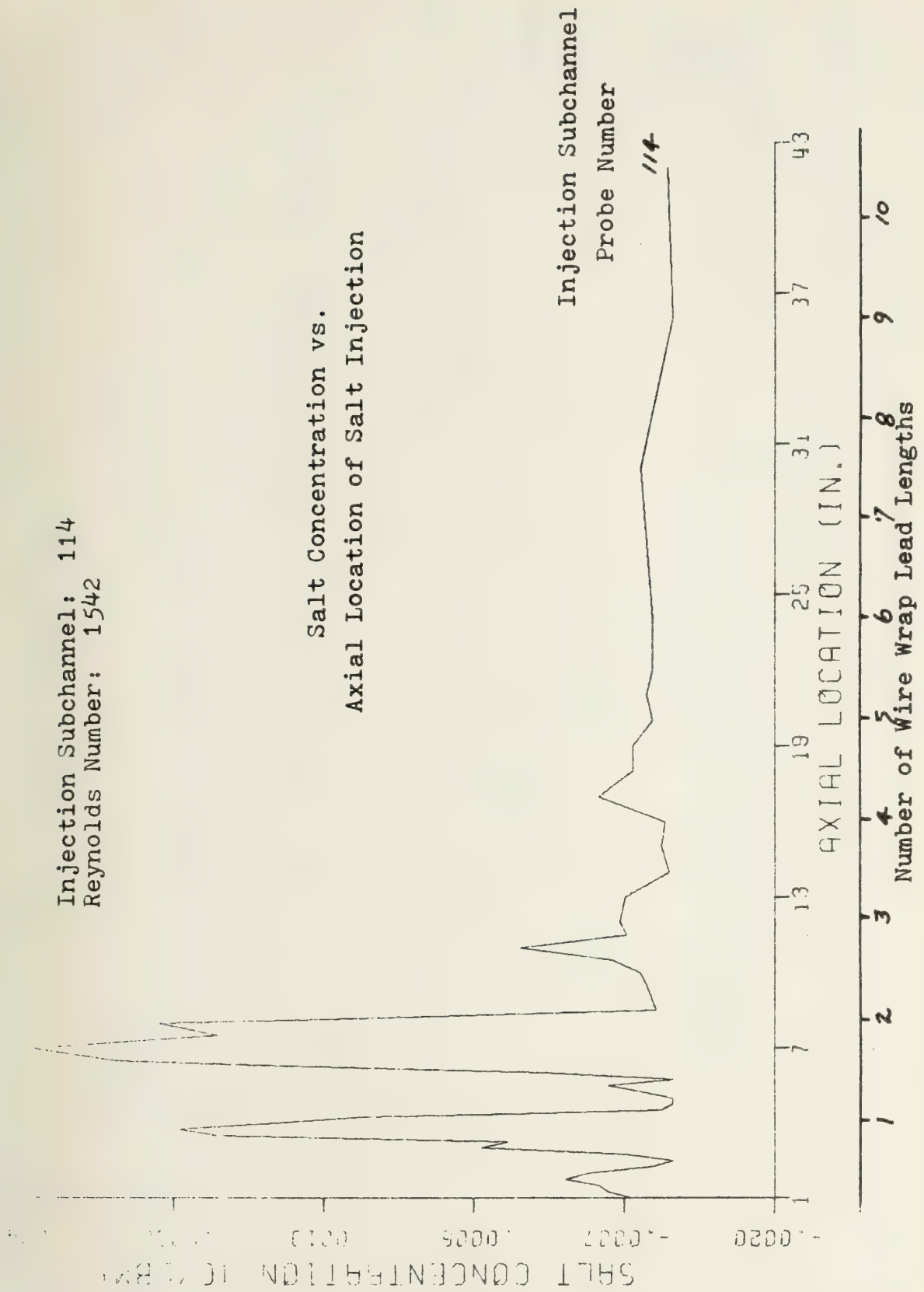


Figure 4-58

Injection Subchannel: 114
Reynolds Number: 1542

Salt Concentration vs.
Axial Location of Salt Injection

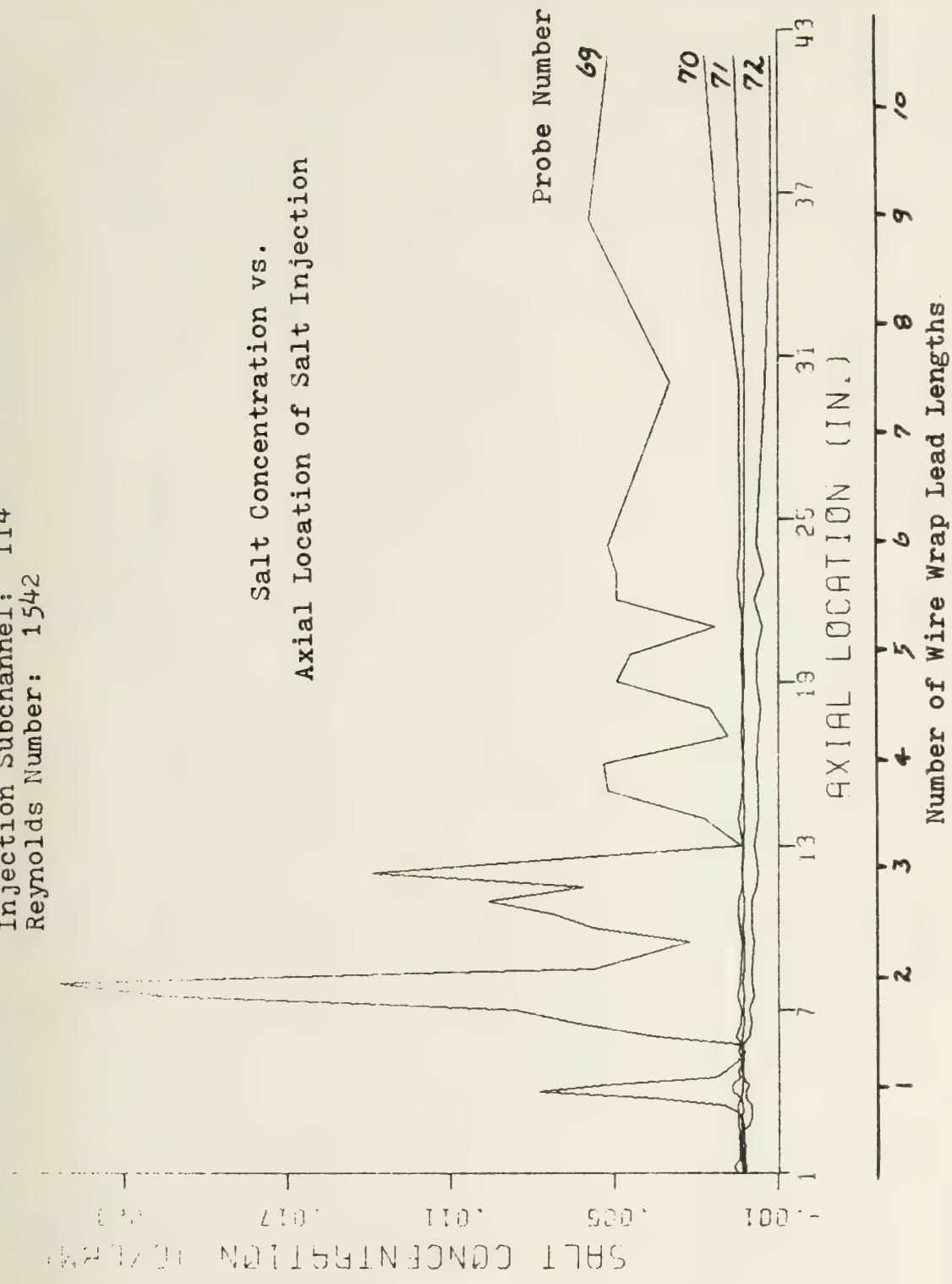


Figure 4-59

Injection Subchannel: 114
Reynolds Number: 1542

Probe Number

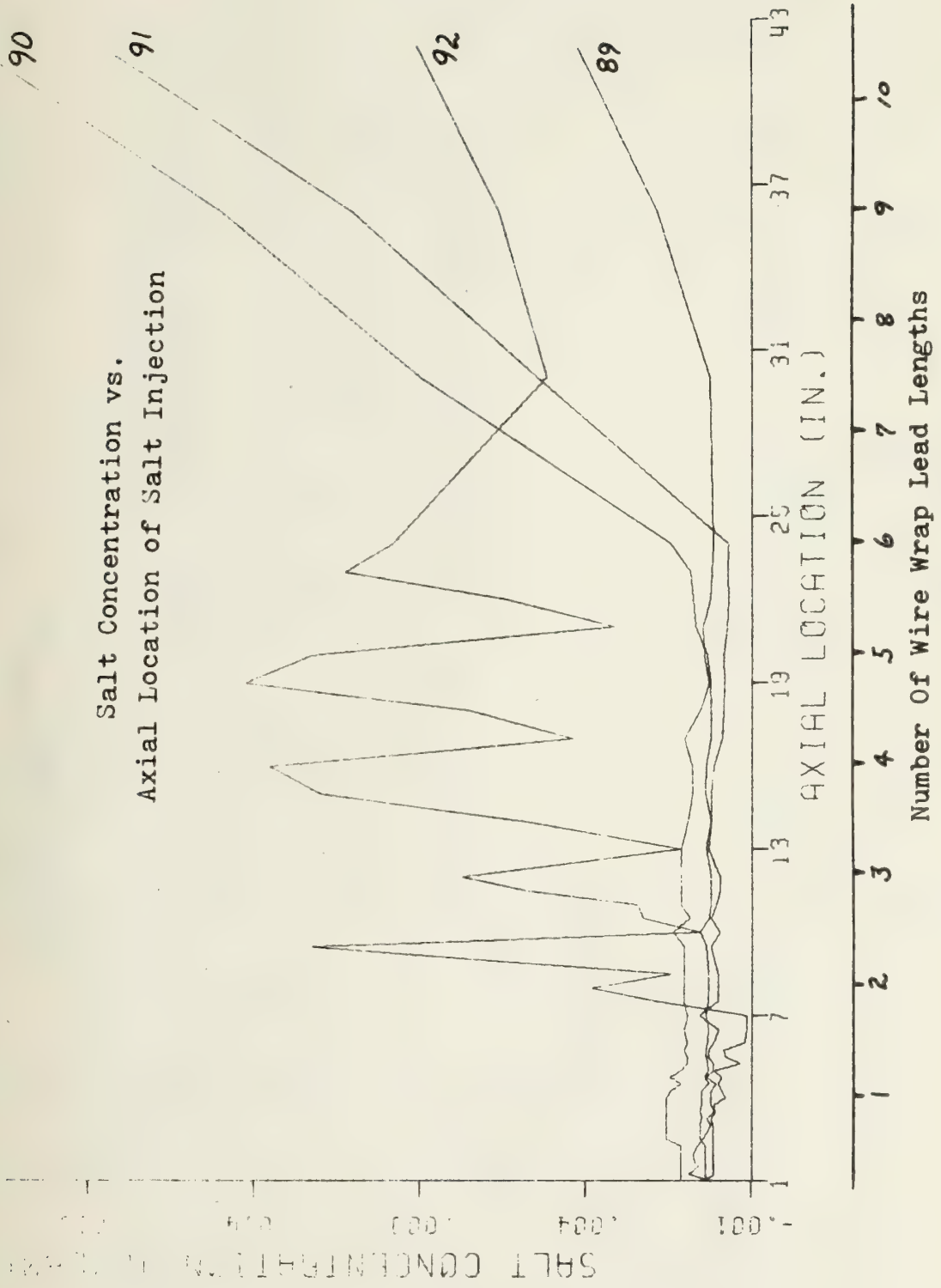


Figure 4-60

Injection Subchannel: 114
Reynolds Number: 1542

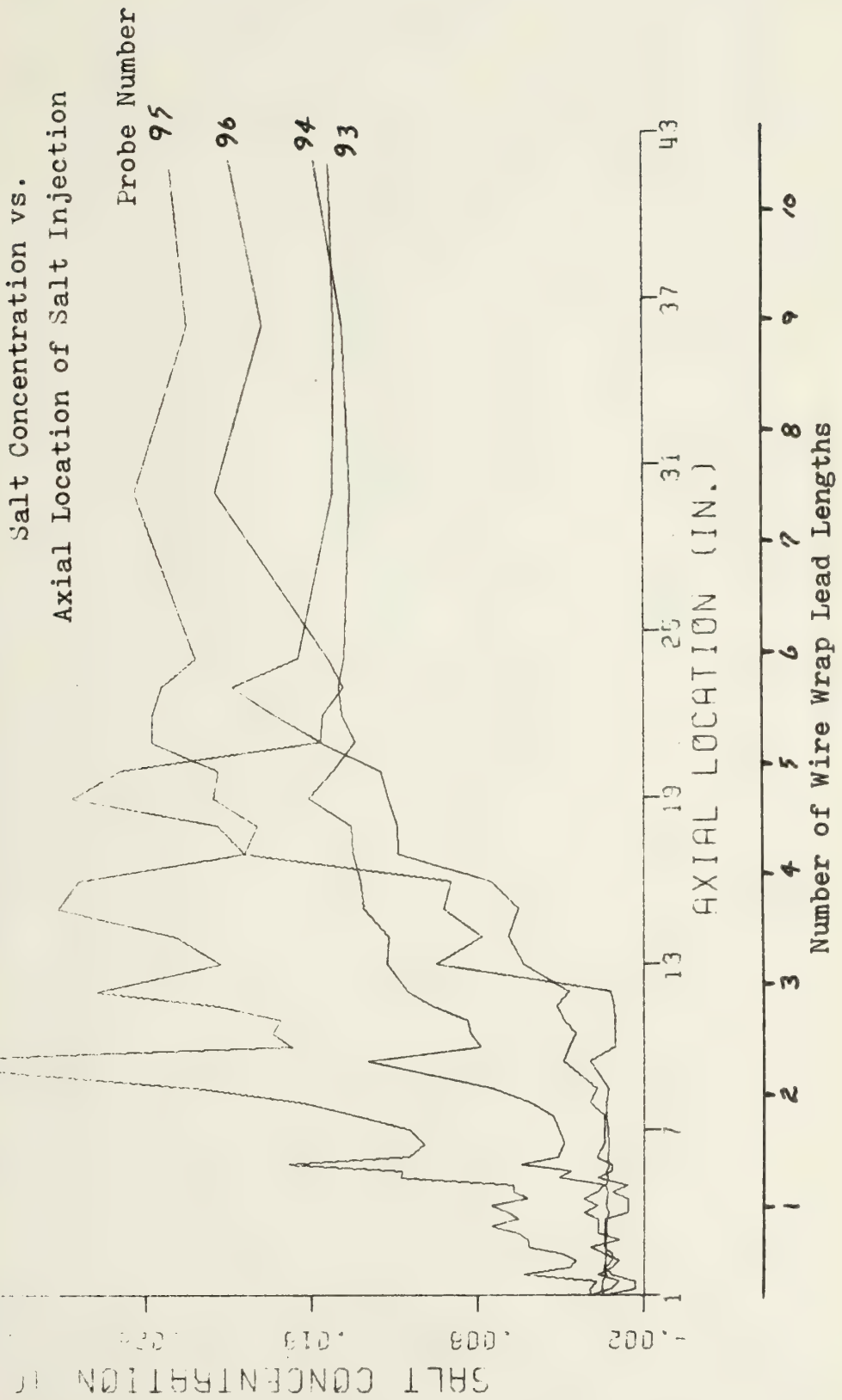


Figure 4-61

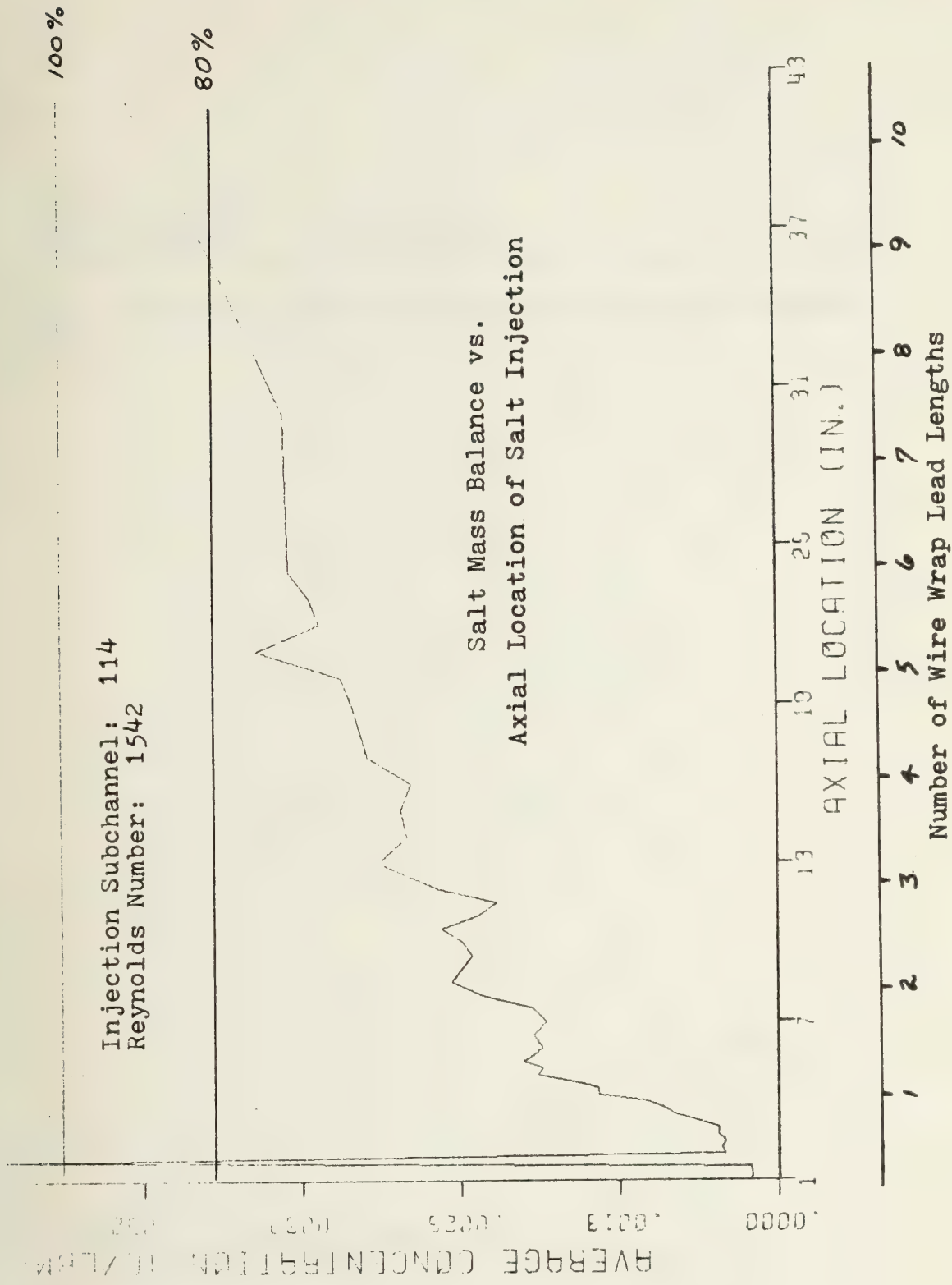


Figure 4-62

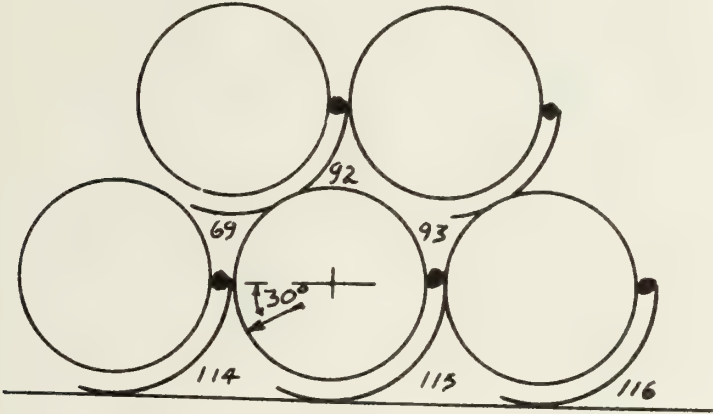
AVERAGE SALT CONCENTRATION = 0.0046 G-SALT/LBM-WATER

-1

Injection Subchannel: 114 (underlined)

Figure 4-63

arrow shows salt injection point



Wire Wrap Orientation for Edge Injection At
36, 28, 24, 20, 16, 12, 8, and 4 inches

Figure 4-63a

AXIAL POSITION # 4

AXIAL LOCATION = 24.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0040 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

[illegible]

Reynolds Number: 1542

Injection Subchannel: 114 (underlined)

Figure 4-64

AXIAL POSITION # 10

AXIAL LOCATION = 18.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0034 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

[illegible]

Reynolds Number: 1542

Injection Subchannel: 114 (underlined)

Figure 4-65

AVERAGE SALT CONCENTRATION = 0.0028 G-SALT/LBM-WATER

-1

Injection Subchannel: 114 (underlined)

Figure 4-66

AXIAL POSITION # 20

AXIAL LOCATION = 10.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0026 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

[illegible]

Reynolds Number: 1542

Injection Subchannel: 114 (underlined)

Figure 4-67

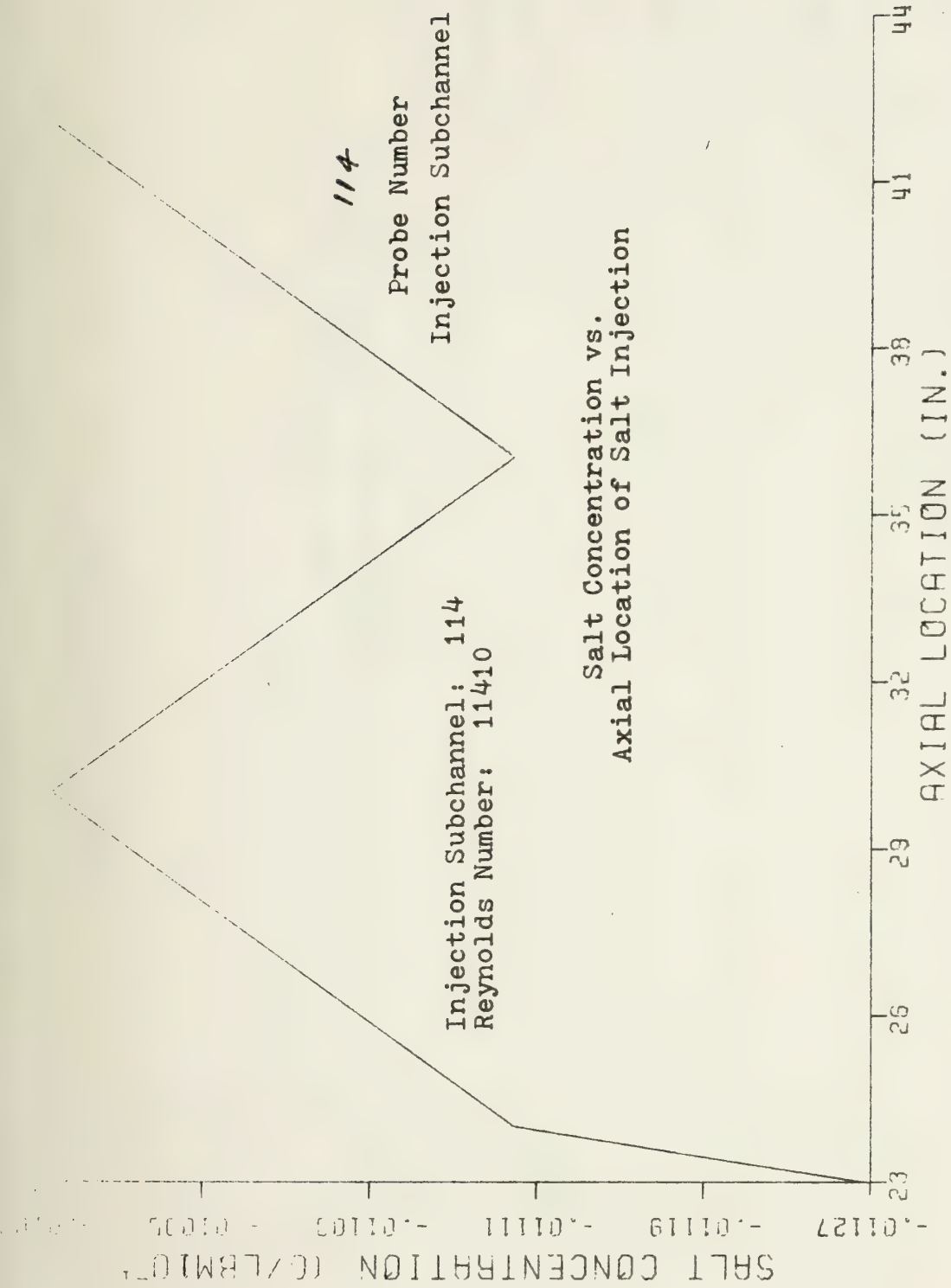


Figure 4-68

Injection Subchannel: 114
Reynolds Number: 11410

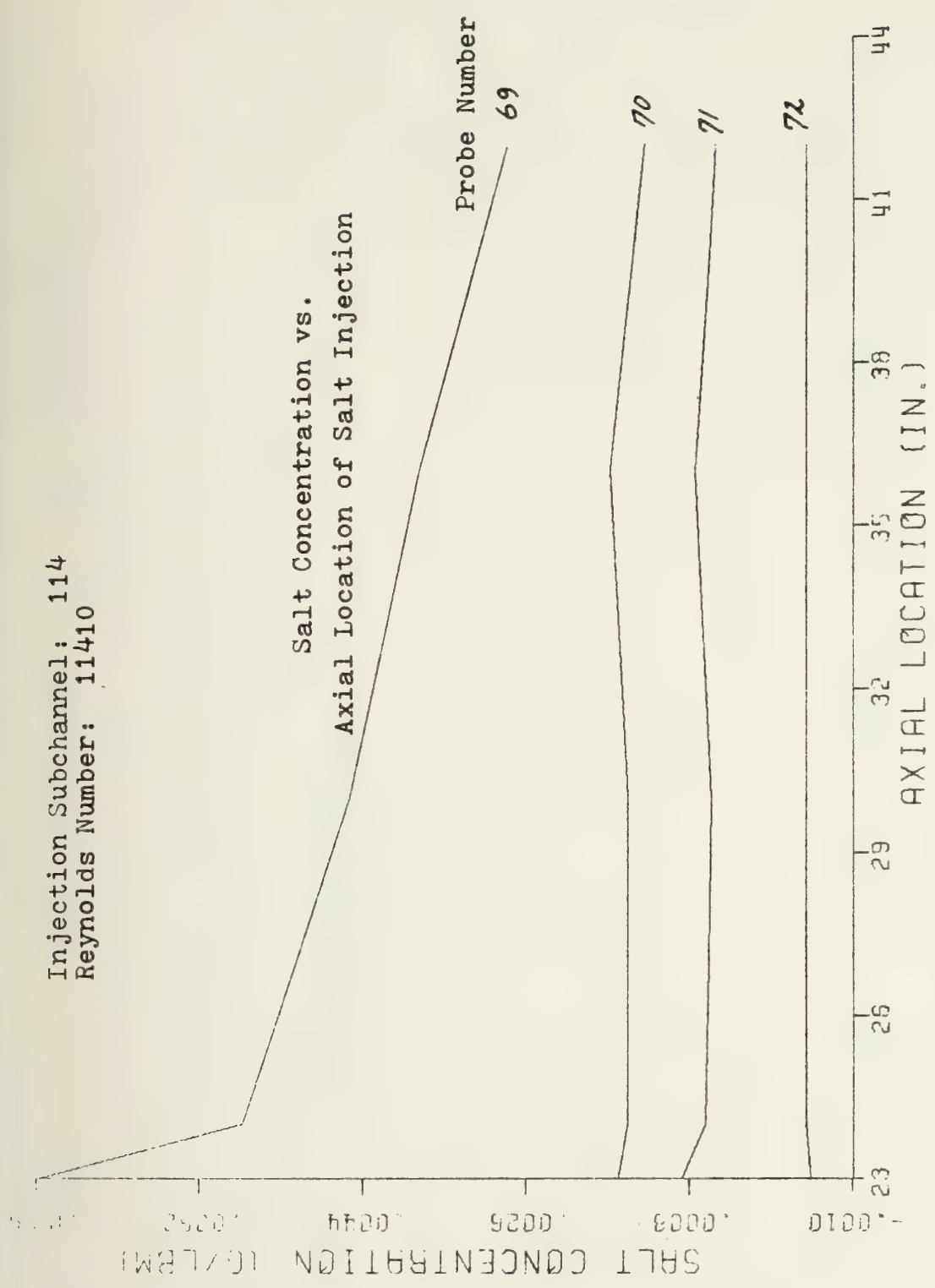


Figure 4-69

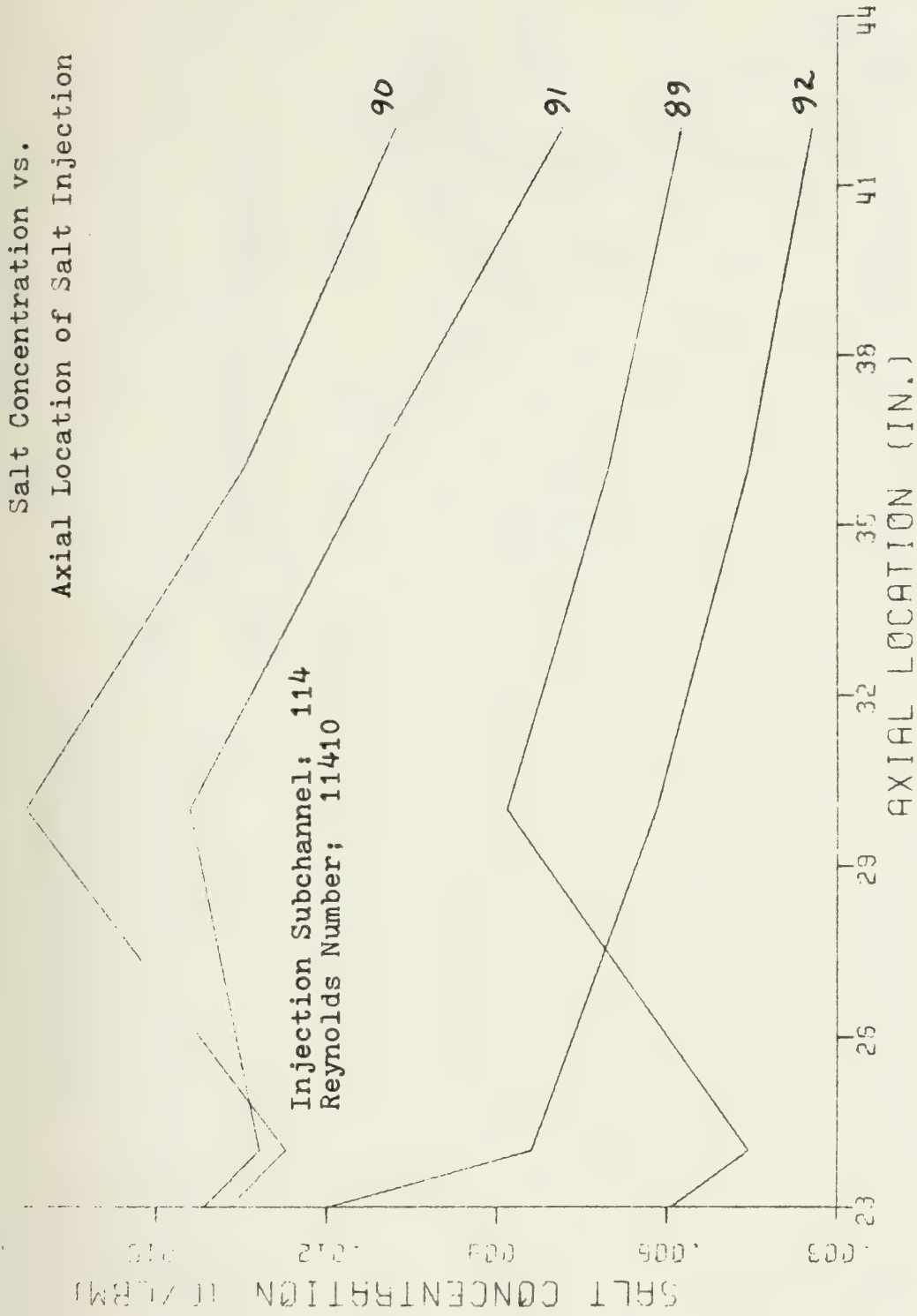


Figure 4-70

Injection Subchannel: 114
Reynolds Number: 11410

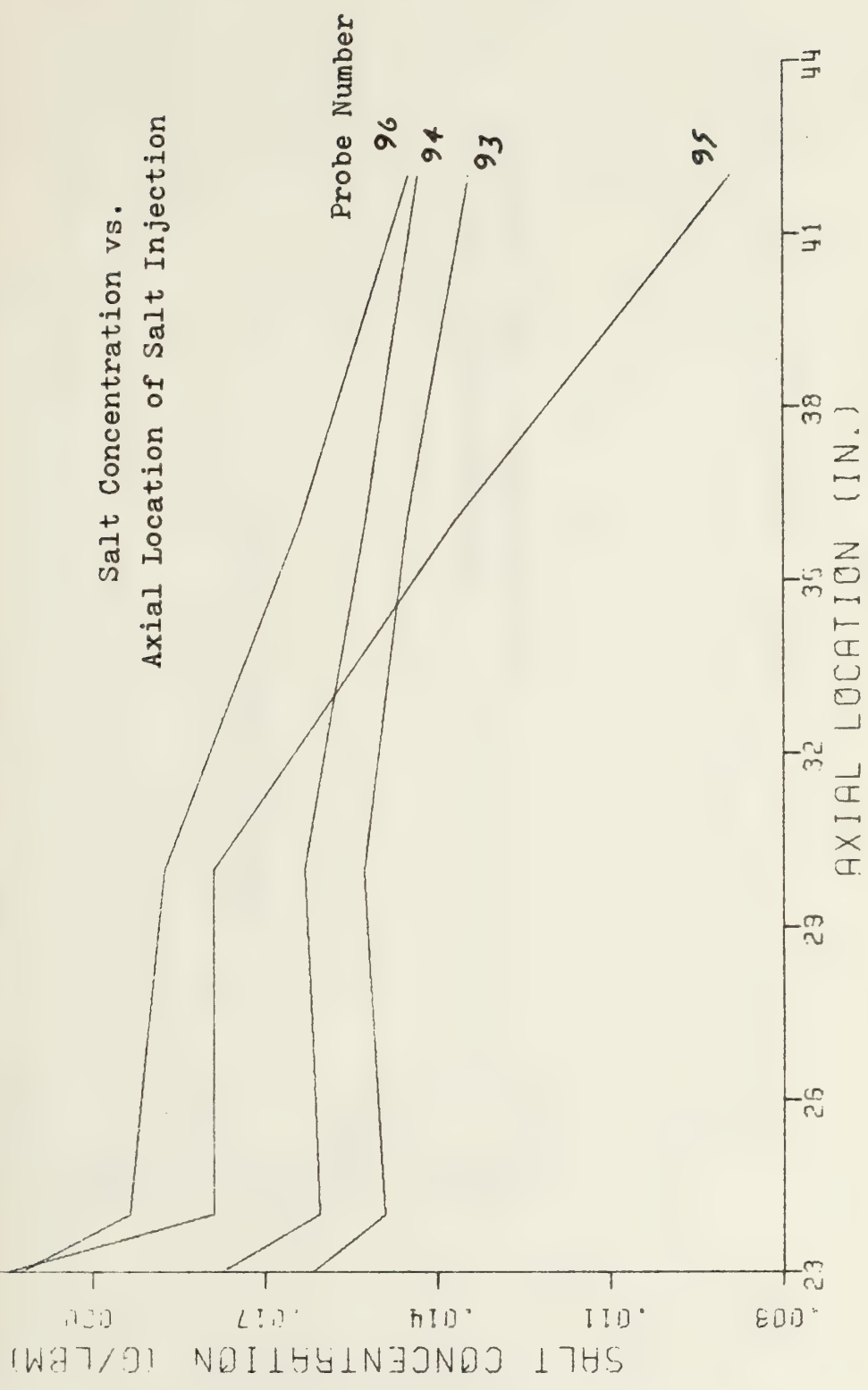


Figure 4-71

100%

80%

Injection Subchannel: 114
Reynolds Number: 11410

Salt Mass Balance vs.
Axial Location of Salt Injection

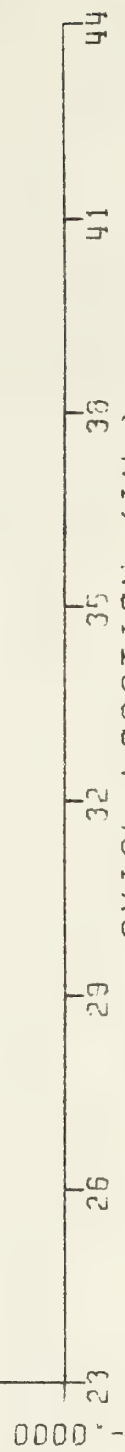


Figure 4-72

AXIAL POSITION # 2

AXIAL LOCATION = 36.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0040 G-SALT/LBN-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

[illegible]

Injection Subchannel: 114 (underlined)

Reynolds Number: 11410

See Figure 4-63a for wire wrap orientation

Figure 4-73

AXIAL LOCATION = 24.00 INCHES

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

- 1

Injection Subchannel: 114 (underlined)

Figure 4-74

Injection Subchannel: 94
 Reynolds Number: 1542

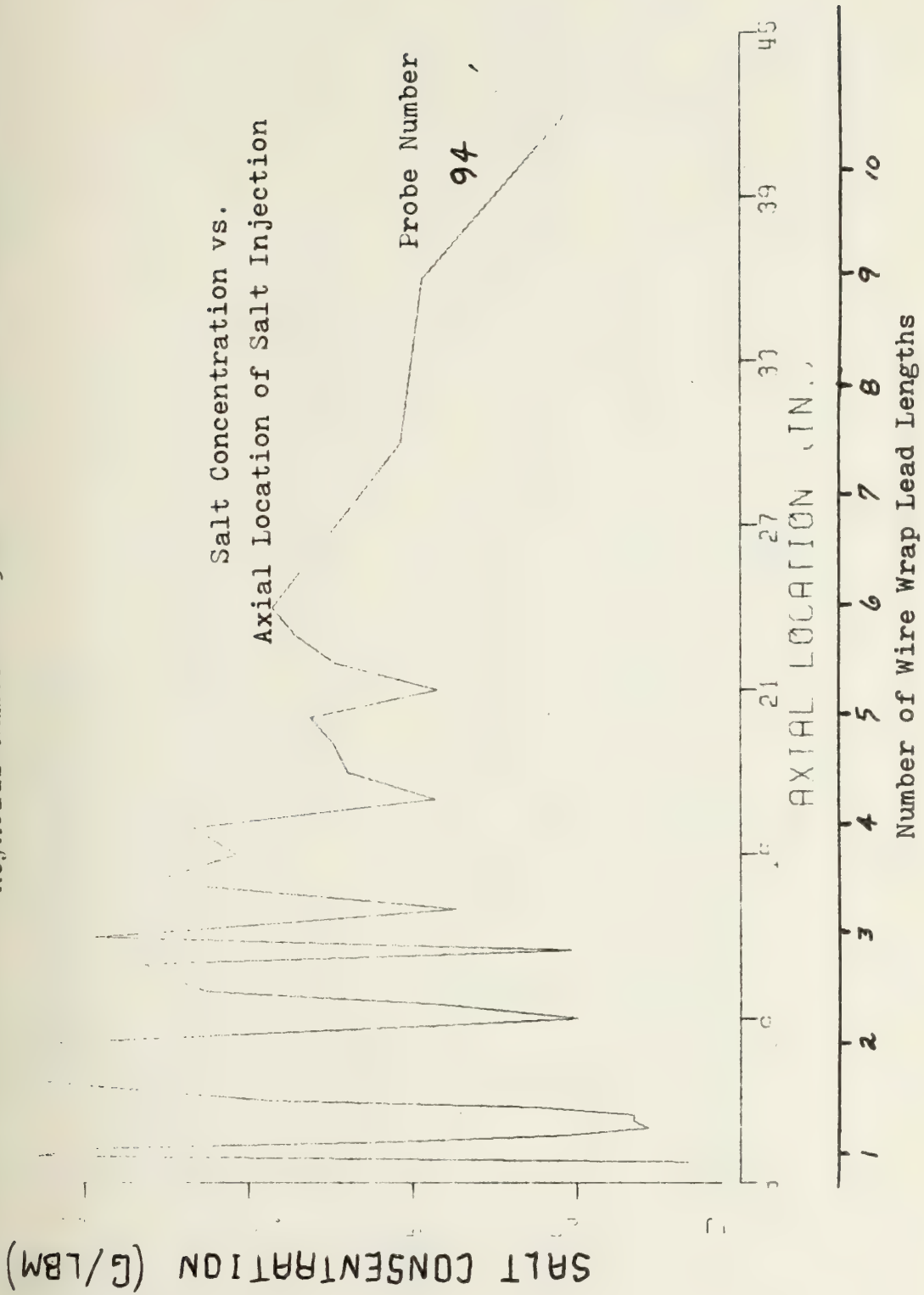


Figure 4-75

SALT CONCENTRATION (G/LBM)

Injection Subchannel: 94
Reynolds Number: 1542

Salt Concentration vs.
Axial Location of Salt Injection

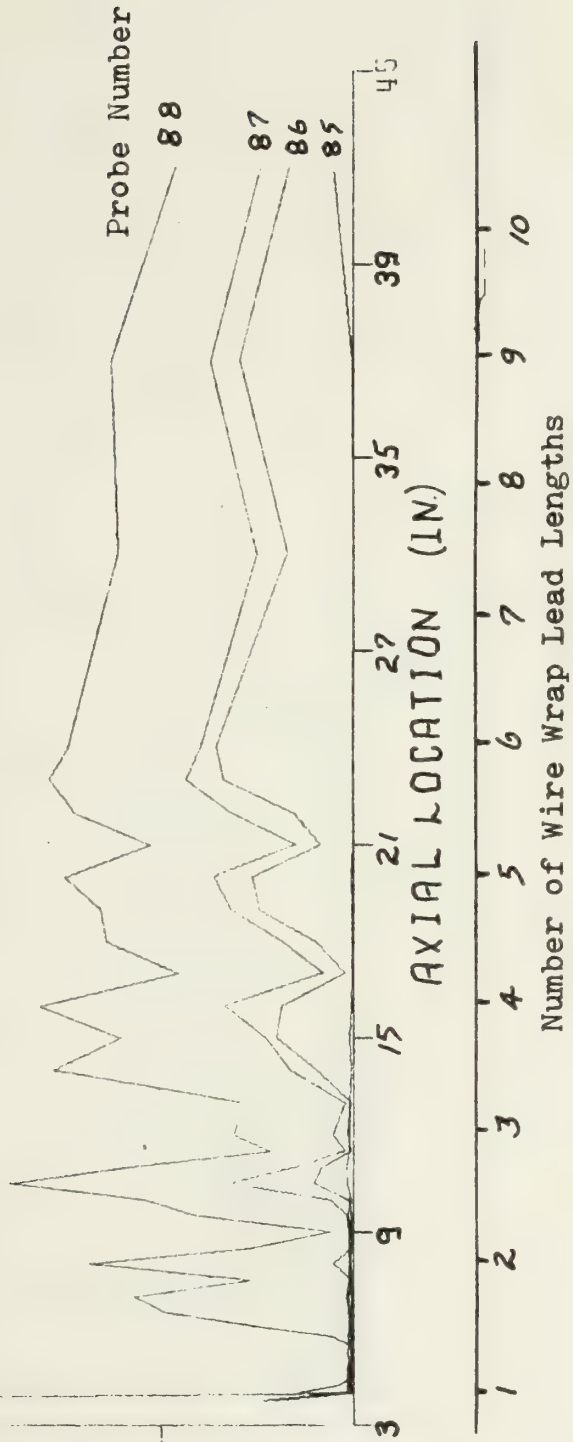


Figure 4-76

Injection Subchannel: 94
Reynolds Number: 1542

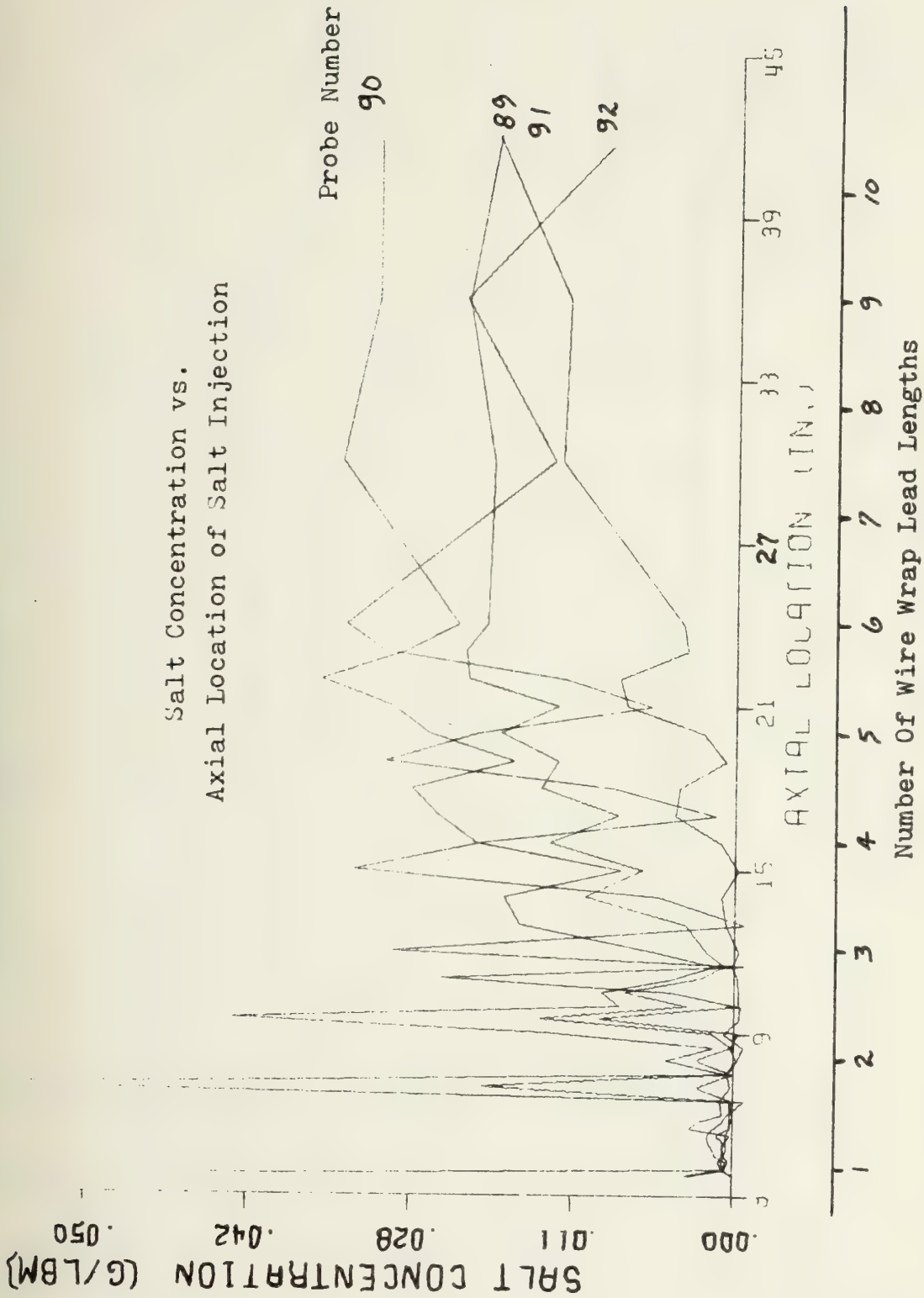


Figure 4-77

Injection Subchannel: 94
Reynolds Number: 1542

Salt Concentration vs.
Axial Location of Salt Injection

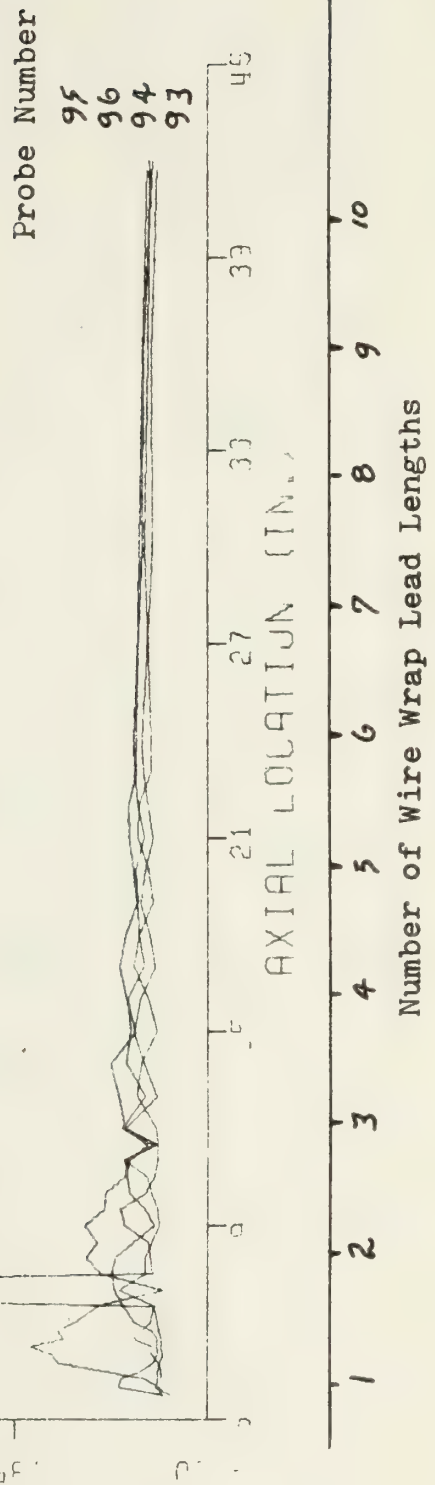


Figure 4-78

Injection Subchannel: 94
Reynolds Number: 1542

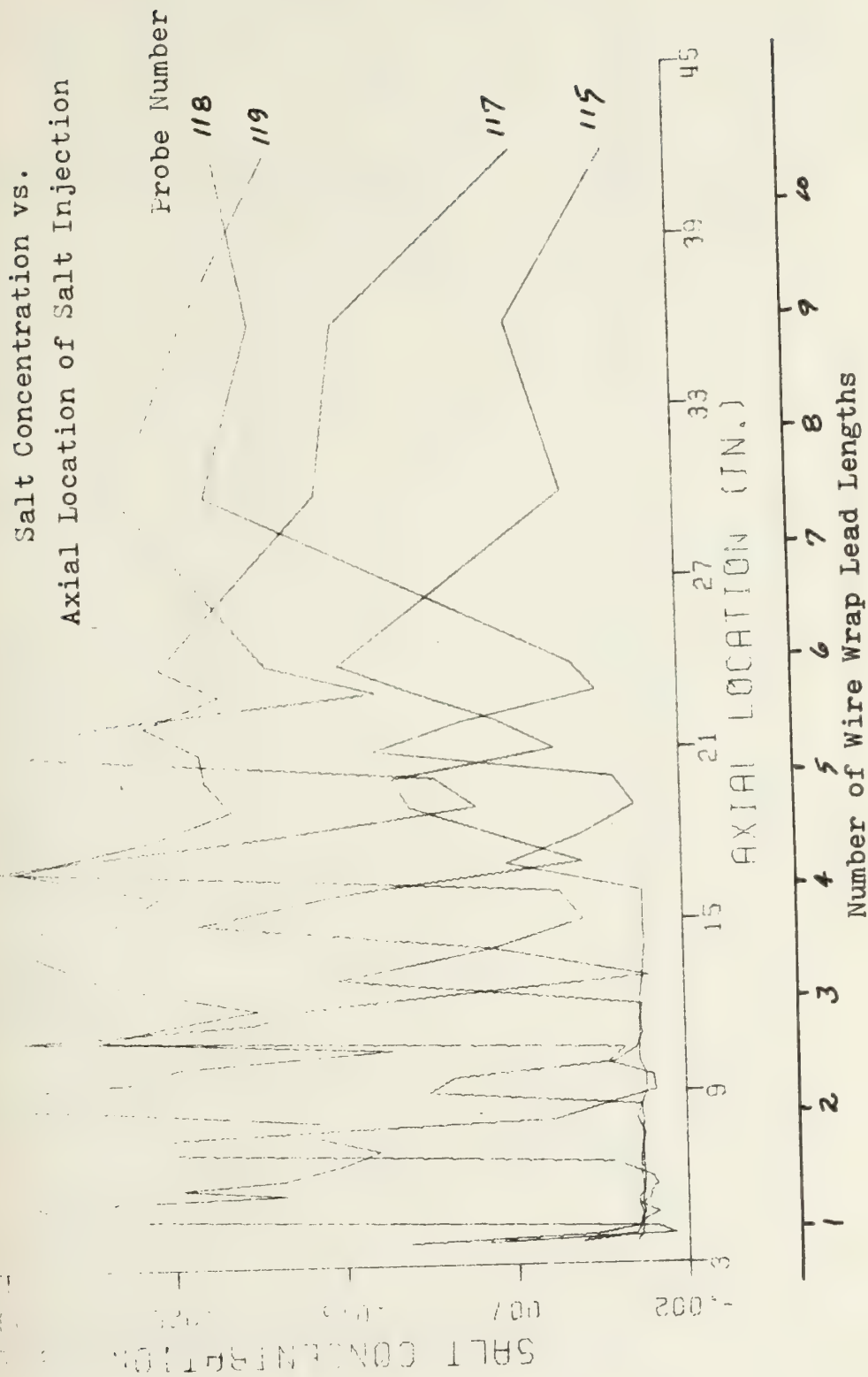


Figure 4-79

Injection Subchannel: 94
Reynolds Number: 1542

Salt Mass Balance vs.
Axial Location of Salt Injection

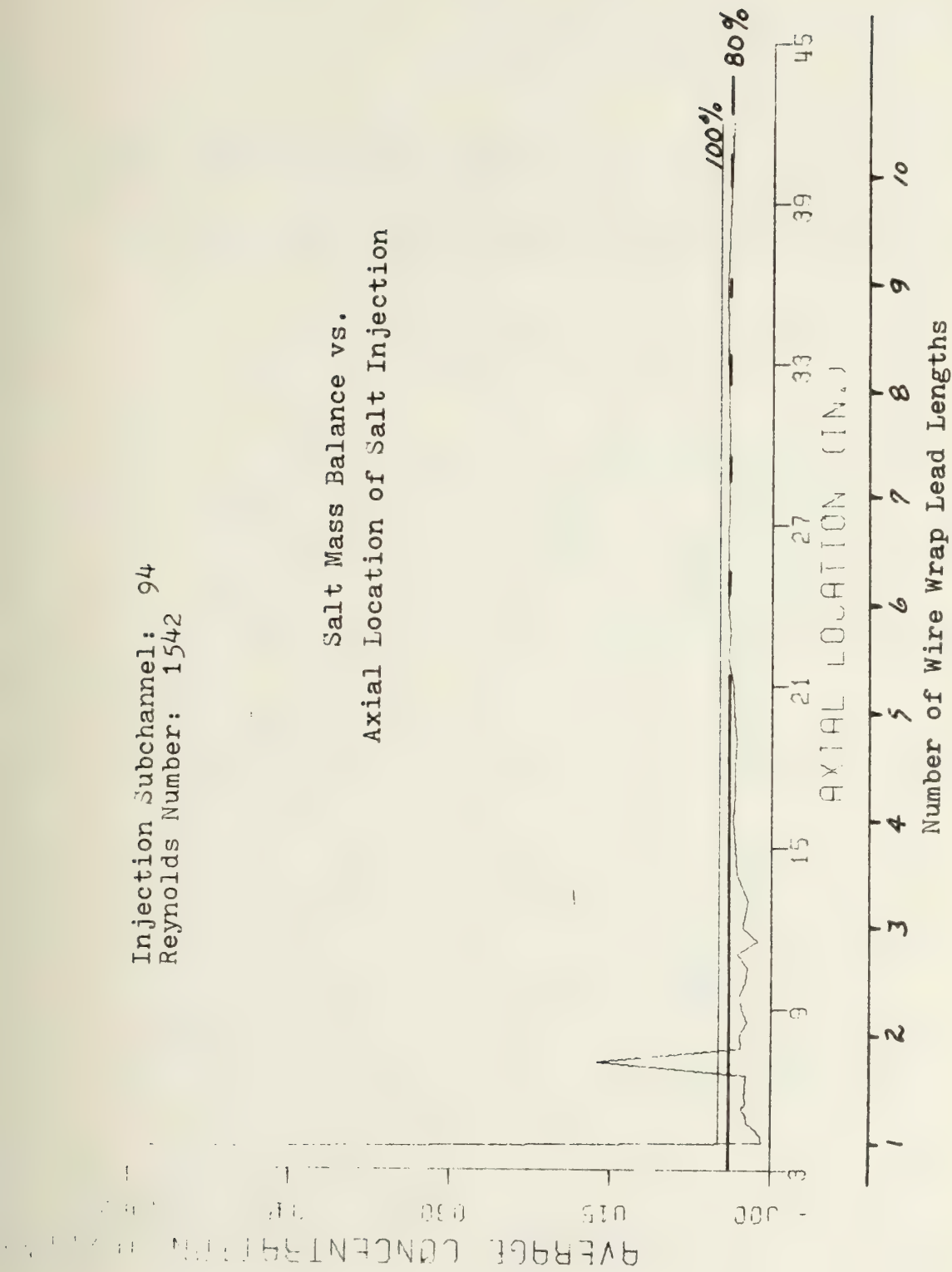


Figure 4-80

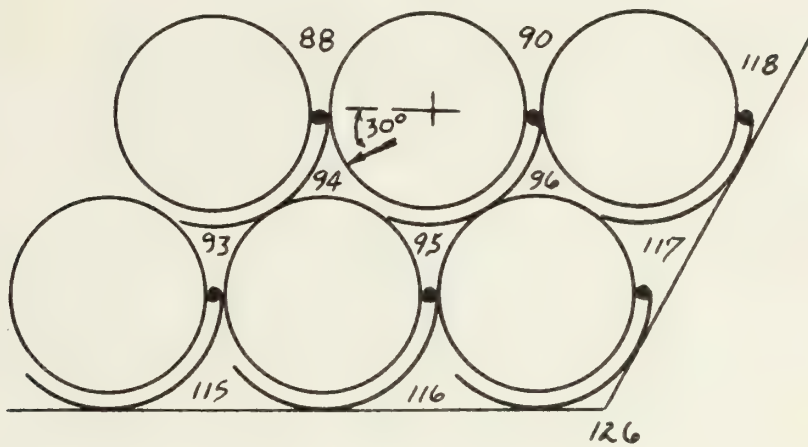
C/LBM-WATER

1/LBM-WATER

/LBM-WATER:

	0	-1	
3		0	
	0		
	0		0
0		0	
0		0	0
	0		0
	0		0
0		0	0
			-1
0		0	1
	0		5
	1		0
2		4	16
3		14	
	31		20
	36		
60		23	
	15		-1

arrow shows salt injection point



Wire Wrap Orientation for Peripheral Injection
At 36, 28, 24, 20, 16, 12, 8, and 4 Inches

Figure 4-81a

AXIAL POSITION # 10

AXIAL LOCATION = 18.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0035 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

[illegible]

Reynolds Number: 1542

Injection Subchannel: 94 (underlined)

Figure 4-83

AXIAL POSITION # 16

AXIAL LOCATION = 12.00 INCHES

AVERAGE SALT CONCENTRATION = 0.0027 G-SALT/LBM-WATER

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

			-1		-5		-5		1		-3		-1	
			0		1		0		0		-3		0	
				0		1		1		0		-3		
		0		-2		1		0		0		0		0
			0		0		1		0		0		0	
	-2		-3		1		0		0		1		0	0
		1		-4		-3		0		1		0		0
0		-4		-3		1		1		0		0	1	-1
		0		1		-2		1		-2		1		0
-1														-1
		4		-5		1		-4		0		1		0
1			0		-2		0		0		0		0	-2
														-3
		-4		0		0		0		1		0		0
		0		0		1		-3		0		0		0
														1
			0		-2		-2		3		2		0	
			0		1		0		0		18		7	0
			1		0		29				98		20	
		0		1		0		0		91		92		0
			-1		0		0		17		20		-1	

Reynolds Number: 1542

Injection Subchannel: 94 (underlined)

Figure 4-84

—

2

2

AXIAL LOCATION = 9.00 INCHES

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

Reynolds Number: 1542
Injection Subchannel: 94 (underlined)

Figure 4-86

AXIAL LOCATION = 8.00 INCHES

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

-1

Injection Subchannel: 94 (underlined)

Figure 4-87

AXIAL LOCATION = 6.00 INCHES

SU23HANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:

-1 -1

Injection Subchannel: 94 (underlined)

Figure 4-88

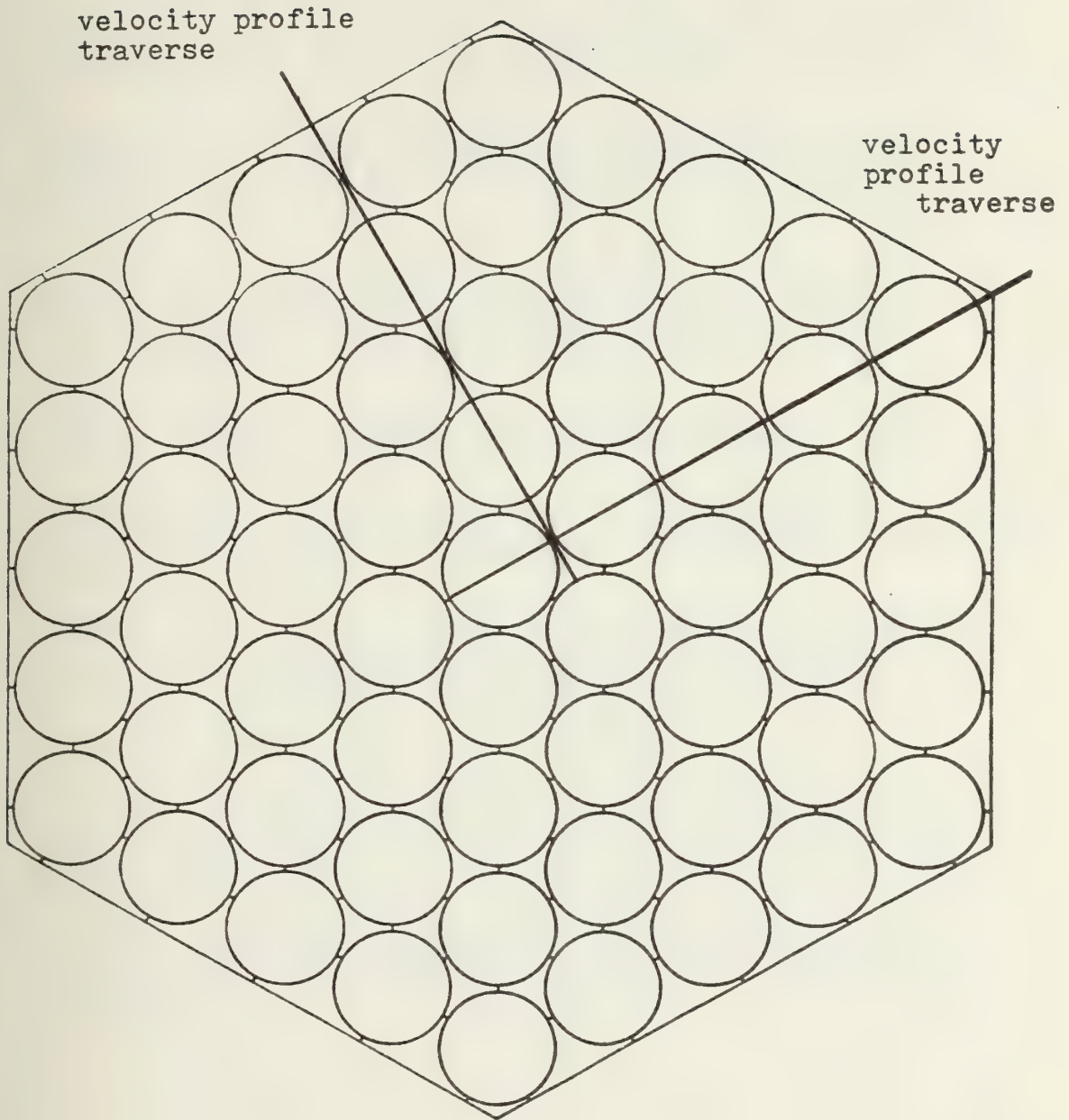


Figure 5-1
Suggested Velocity Traverses

REFERENCE LIST

1. Khan, E.U., et al., "A Simplified Approach for Predicting Temperature Distribution in Wire Wrapped Assemblies," COO-7245-5-TR, MITNE-153, September 1973.
2. Khan, E.U., et al., "Analysis of Mixing Data Relevant to Wire Wrapped Fuel Assembly Thermal-Hydraulic Design," COO-2245-12-TR, MITNE-165, September 1974.
3. Khan, E.U., "A Porous Body Model for Predicting Temperature Distribution in Wire Wrapped Fuel and Blanket Assemblies of a LMFBR," Phd.D. Thesis, MIT, January 1975.
4. Eaton, T.E., "Instrumentation Methods for Interchannel Coolant Mixing Studies in Wire Wrap Spaced Nuclear Fuel Assemblies," S.M and Engineer's Thesis, MIT, February 1974.
5. "Design Analysis of the LMFBR Radial Blanket," WARD-3045T2B-9, March 1973.
6. Benjamin, J.R. and Cornell, C.A., Probability Statistics, and Decision for Civil Engineers, McGraw-Hill, New York, 1970.
7. Lorenz, J.J., et al., "Experimental Mixing Studies and Velocity Measurements with a Simulated 91-Element LMFBR Fuel Assembly," ANL-CT-74-09, March 1974.
8. Personal communication with E.U. Khan.
9. Todreas, N.E. and Turi, J.A., "Interchannel Mixing in Wire Wrapped Liquid Metal Fast Reactor Fuel Assemblies," Nuclear Technology, Vol. 13, pg. 56, January 1972.
10. Todreas, N.E. and Wilson, L.W., "Coolant Mixing in Sodium Cooled Fast Reactor Fuel Bundles," Division of Reactor Development and Technology, USAEC, WASH-1096, April 1968.

11. Rogers, J.T. and Todreas, N.E., "Coolant Interchannel Mixing in Reactor Fuel Rod Bundles Single Phase Coolants," Heat Transfer in Rod Bundles, ASME Winter Meeting, 1968.
12. 22.312 Class notes, 1974
13. Robinson, R.A. and Stokes, R.H., Electrolytic Solutions, Butterwarths, London, 1970.
14. Jones, G. and Bollinger, D.M., "The Measurement of the Conductance of Electrolytes, VII on Platinization," Journal of the American Chemical Society. V52, N2, 1935.
15. Novendstern, E.H., "Turbulent Flow Pressure Drop Model of Fuel Rod Assemblies Utilizing a Helical Wire-Wrap Spacer System," Nuclear Engineering and Design, V22, 1972.
16. Personal communication with A. Hanson.
17. Sangster, W.A., "Calculations of Rod Bundle Pressure Loss," ASME Paper 68-WA/Ht-35, 1968.
18. Personal communication with A. Hanson and T. Eaton.
19. Personal communication with T. Eaton.
20. "Coolant Mixing in LMFBR Rod Bundles," Quarterly Report for June 1-August 31, 1974, COO-2245-13.
21. Personal communication with N.E. Todreas.
22. Rehme, K., "Pressure Drop Correlation for Fuel Element Spacers," Nuclear Technology, Vol. 17, January 1973, p.15.
23. Hanson, A.S., "Hydraulic Diameter Flow Split Analysis," Appendix J of Velocity Measurements in Edge Subchannels of Wire Wrapped LMFBR Fuel Assemblies by Y.B. Chen et al., COO-2245-11TR, MIT, September 1974.

Appendix 1

COOLANT INTERCHANNEL MIXING

Given the severe radial neutron flux gradients and the wide range of flow conditions present in Liquid Metal Fast Breeder Reactors (LMFBR), large temperature gradients may be predicted across the reactor subassemblies. However, the coolant mixing phenomenon between interconnected subchannels in wire wrapped geometries results in considerably less severe temperature fields than those which result when only conduction is considered[6]. The two major hydrodynamic effects of the presence of wire wrap spacers are that they increase the pressure drop but enhance flow mixing. The mixing phenomenon can be summarized as shown in Table A1-1.

The natural mixing effects, turbulent interchange and diversion cross-flow, are those mixing processes which act in the absence of protuberances in the rod bundles. Turbulent interchange results from natural eddy diffusion between the subchannels. The time averaged magnitude of turbulent interchange at any subchannel boundary is zero.

Diversion cross-flow is the directed flow caused by radial pressure gradients between adjacent subchannels. These gradients are caused by differences in subchannel heat-flux distribution and differences in subchannel hydraulic

diameter and fuel rod or flow housing eccentricity or bowing. Diversion cross-flow is most significant in the entrance length of channels, locations of abrupt geometry changes and locations where one subchannel boils sooner than adjacent subchannels, causing differences in void fraction and coolant properties between subchannels.

A1.2. Forced Mixing Effects [8]

Forced mixing is subchannel interchange caused by the presence of rod spacers or grids in the flow channel. The flow may be broken up in a random fashion which is called flow sweeping. Flow scattering is analogous to turbulent interchange in natural mixing while flow sweeping is analogous to diversion cross-flow.

Flow sweeping is the predominant mode of energy transfer in LMFBR subassemblies. As the coolant proceeds axially through the subassembly, the flow sweep between any two rods alternates in direction as shown in figure A1-1. The flow is maximum where the wires cross the gap between the rods, and it reverses direction between adjacent spacer locations. At the subassembly walls, the flow, called swirl flow, is always in one direction. Fluctuations in swirl flow are caused by wire wraps alternately sweeping flow towards and away from the wall. At the axial location where sweep flow goes

to zero, a diversion cross-flow can exist which is periodic(1). Turbulent exchange causes no cross-flow but can affect momentum and energy balances.

Al.3. Significance of Mixing

For LMFBR's, predictions of the reduction of temperature gradients by the mixing phenomenon in wire wrap spaced fuel subassemblies are significant for designing to limits in the following areas [7]:

1. Cladding hot spots
2. Fuel assembly flow housing bowing
3. Subchannel flow blockage

Core thermal performance is adversely affected by the larger the temperature difference between the nominal fuel cladding temperature and the hot spot limit. This temperature difference is affected by subchannel effects and detailed flow and geometry effects. The various effects are taken into account by hot channel factors which characterize coolant temperature and film temperature differences between subchannels. These differences are derived both from subchannel geometrical variations between bundle edge and central subchannels which induce subchannel velocity differences and from the radial power distribution. Local perturbations of a fuel rod and adjacent fuel rods cause circumferential cladding

temperature variations. Perturbations can be caused by fuel pellet stacking irregularities or cladding faults. Further effects are caused by the addition of fabrication tolerances in fuel rods, spacers and flow housing. Flow area differences can be caused by differences in thermal and irradiation swelling of fuel rods. Irradiation induced swelling of the stainless steel fuel rod is temperature dependent. Mixing acts to homogenize temperature imbalances between bundle subchannels and can have a large impact on local velocity profiles through diversion cross-flow and flow sweep. Accurate mixing predictions are, therefore, important in predicting hot channel factors.

Flow housing bowing is caused by radial differences in bulk fluid temperatures and irradiation induced swelling. Duct bowing is important in fast reactors because they are neutronically sensitive to small amounts of fuel movement. Prediction of the mixing effect in flattening radial temperature profiles is important in accurately predicting flow housing deformations.

The consequences of subchannel flow blockages in terms of downstream temperature excursions are likely to be lessened by mixing effects. This means, however, that there is less of a high temperature subchannel flow to aid in detection of a flow blockage.

Table A1-1

Mixing Phenomena

<u>Natural Mixing Effects</u>		<u>Forced Mixing Effects</u>
Nondirectional flow effects	Turbulent Interchange	Flow Scattering
Directional flow effects	Diversion Cross-flow	Flow Sweeping

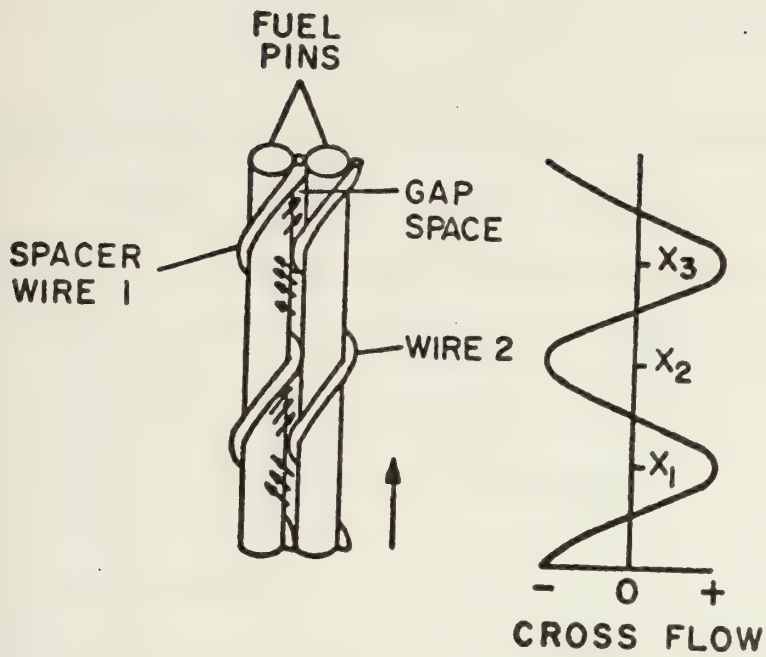


Figure A1-1 (Ref. 2)

Appendix 2
EQUIPMENT LIST

This appendix is included to list the electrical and hydraulic equipment used, the chemical solutions associated with conductivity measurements and commercial materials used in constructing the experimental apparatus.

Table A2-1
Experimental Equipment

Chemicals and Solutions

Tracer Salt: Sodium Chloride, Mallinckrodt Chemical Works, No. 7581, A.C.S. Purity.

Platinizing Solution: Yellow Springs Instrument Co., YSI 3140, Platinum Chloride 3% dissolved in 0.025% Lead Acetate Solution.

Cell Cleaner: 100 milliliters Isopropyl Alcohol, 100 milliliters Ethyl Ether, 50 milliliters concentrated Hydrochloric Acid, and 50 milliliters distilled water.

Electrical Equipment

Platinizing Kit: Yellow Springs Instrument Co., YSI 3139.

Data Acquisition System: Designed and constructed by
Alan S. Hanson, Graduate Student, Nuclear
Engineering Department, MIT.

Hydraulic Equipment

Pump-Motor Sets: Bell and Gossett Co., Hydro-Flow
Centrifugal pumps, Factory Numbers 436983 11W
and 436984 11W, Catalog No. 2-1/2A 7AB, 1510
Type B, 20HP @ 3450RPM, 300GPM @ 180 ft.
water (78psig).

Main Flow Meters

Fisher Porter Co., Precision Bore Flowrater,
Model 10A3567A, SM6610A4743B1, Tube No.
FP-2-27-6-10/83, Float T602GNSWGT-98,
0-37GPM water.

Fisher Porter Co., Precision Bore Flowrater,
Tube No. FP 1-1/2-27-G-10/83, Model 10A 3563A,
SN6612A408681, Float No. T6-11/2GNSWG 9-86,
0-20GPM water.

Fisher Porter Co., By-Pass Oriflowrater, Model
No. B3565-7-3-GD-BSY, SN7404A0514A2, Oriface
Plate No. 625A016U06, 0-370GPM water.

Injection Flow Meters

Fisher Porter Co., Precision Bore Flowrater,

Tube No. 2-F-1/4-20-5/70, glass float..

Fisher Porter Co., Precision Bore Flowrater,

Tube No. FP-1/8-20G, glass float.

Materials

Stainless Steel Solder: STAIN TIN 157PA, Eutectic
and Castolin Institute

Polyurethane: GLIDDEN All Purpose SPRED Urethane
Liquid Plastic.

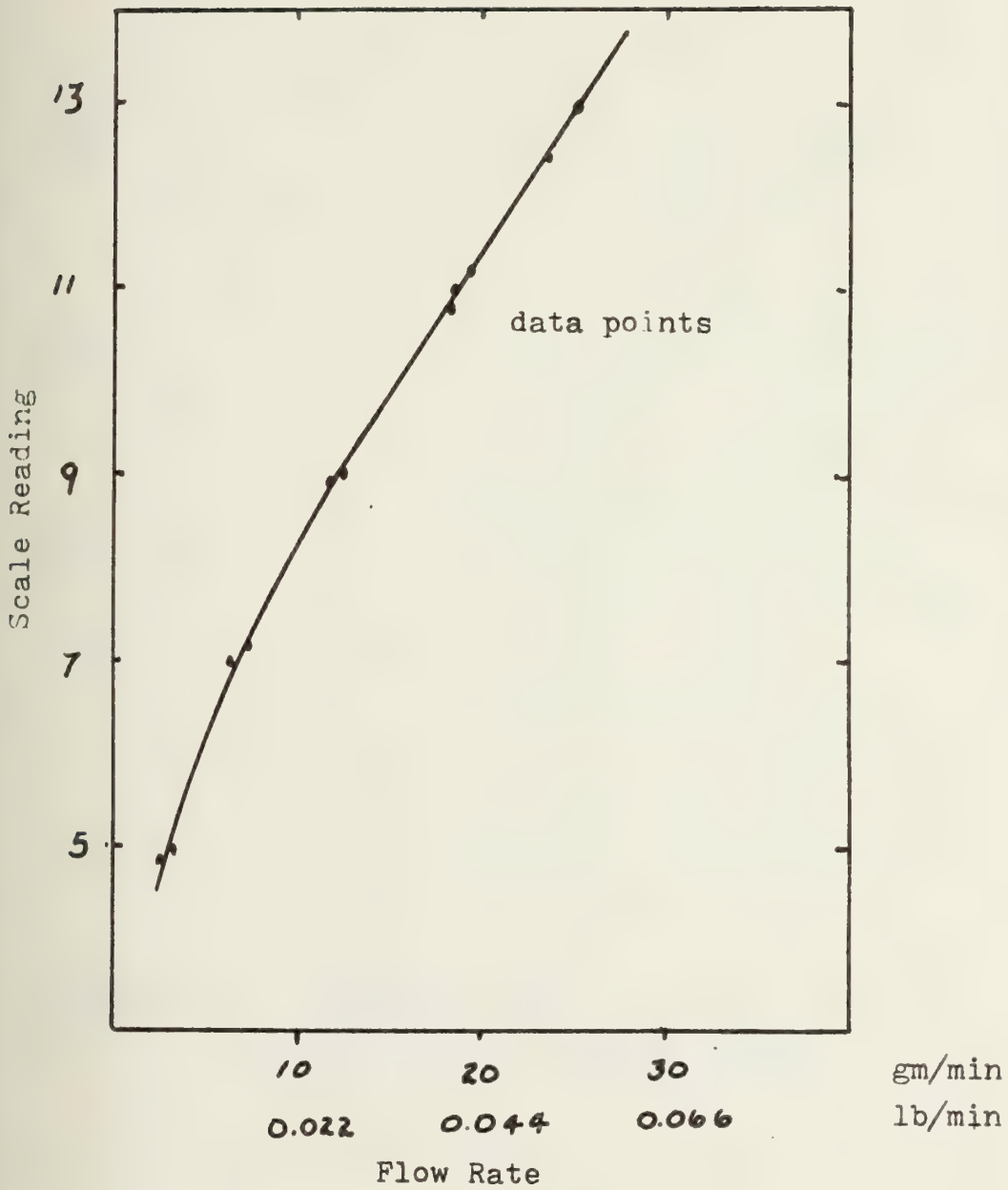


Figure A2-3 Calibration Curve For the 1/8 Inch Injection Flow Meter

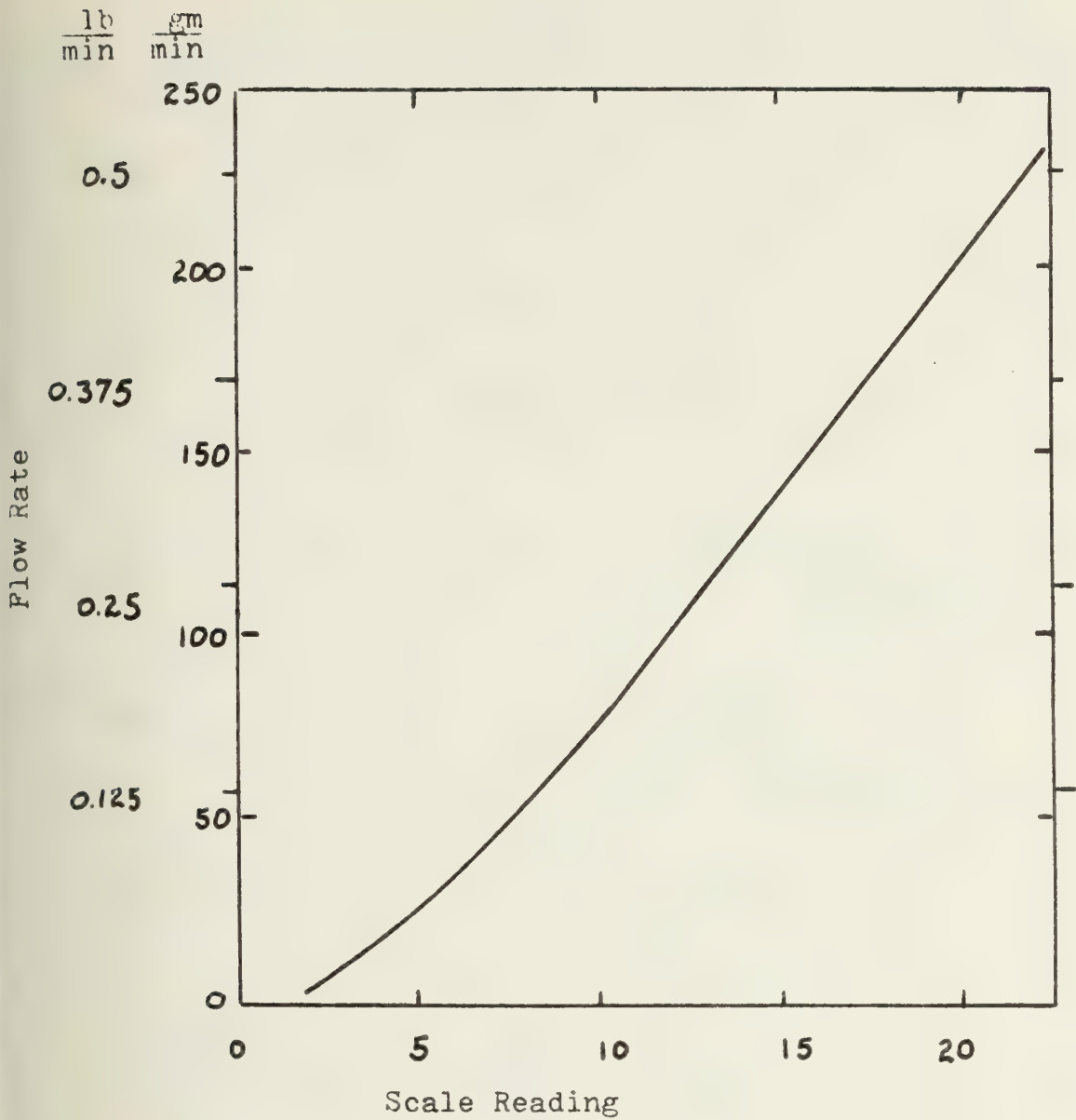


Figure A2-2 Calibration Curve For the $\frac{1}{4}$ Inch Injection Flow Meter (Ref.4)

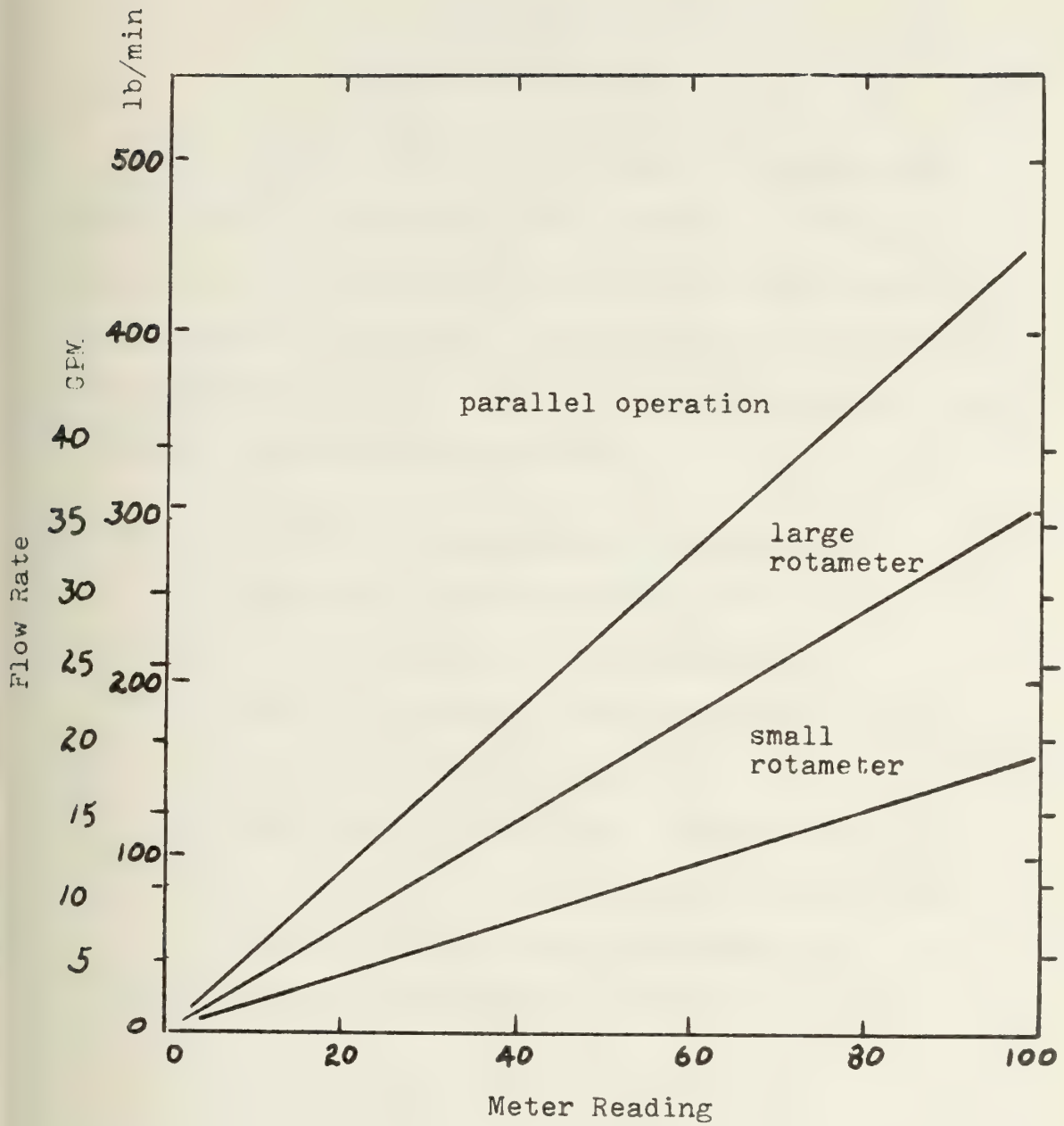


Figure A2-1 Flow Meter Calibration Curves (Ref. 4)

Appendix 3

Data Reduction

This appendix contains a listing of the computer programs used to reduce the salt solution mixing data. Instructions for punching the appropriate data cards for the programs are included. The following three programs were developed by Alan S. Hanson, a Graduate Student in the Nuclear Engineering Department.

1. GEOSPLIT - calculates the geometrical parameters and the pressure drop for a given subassembly (wire wrapped)
 2. CALIB - calculates the calibration curves for the conductivity probes
 3. Data reduction program - reduces the data for a salt mixing experiment from voltage readings to axial salt distributions.
- Inputs from GEOSPLIT and CALIB are used.

GEOSPLIT Data Cards

CARD	SPACES	FORMAT	CODE WORD
1	1-5	15	KASE

Case number

1	6-10	15	ISPLIT
---	------	----	--------

Determines option of calculating flow split by
 setting velocity ratios or by Sangster method
 ISPLIT - 0 for Sangster
 ISPLIT - 1 for velocity ratios

1	11-74	16A4	TEXT
---	-------	------	------

Description of case

2	1-10	F10.4	DIATOL
---	------	-------	--------

Diametrical tolerance - difference between
 across flats of hex. with and without tolerances

2	11-20	F10.4	FLOOSE
---	-------	-------	--------

Looseness factor 0 to 1
 See reference 23.

2	21-25	F5.0	PINS
---	-------	------	------

Number of rods

2	26-35	F10.4	RC
---	-------	-------	----

Duct corner radius

CARD	SPACES	FORMAT	CODE WORD
2	26-45	F10.4	DPIN
	Rod diameter in inches		
2	46-55	F10.4	DWIR
	Wire wrap diameter in inches		
2	56-60	F5.0	LEAD
	Wire wrap lead length in inches		
2	61-75	3F5.3	WFACT(I),I=1,3
	Fraction of wire per subchannel for each subchannel type		
	1. edge - 0.5		
	2. central - 0.5		
	3. corner - 0.1667		
3	1-10	F10.4	CONST
	Constant in friction factor term. For example 0.316 from Blasius equation		
3	11-20	F10.4	REXP
	Exponent on Reynolds number in friction factor equation.		
3	21-30	F10.4	TWATER
	Water temperature in degrees F		

CARD	SPACES	FORMAT	CODE WORD
------	--------	--------	-----------

3	31-40	F10.4	GTOT
---	-------	-------	------

Flow rate in gpm

Repeat for each case. For example a set of three cards is needed for each flow rate investigated.

LAST CARD	5	I5	ISPLIT
-----------	---	----	--------

Numeral zero (0) to stop program

GECSPLIT--A CODE TO CALCULATE THE GEOMETRIC PARAMETERS, THE FLOW
DISTRIBUTION, AND THE AXIAL PRESSURE GRADIENT OF AN
HEXAGONAL ROD ARRAY WITH WATER AS COOLANT

```

1 FORMAT(2I5,16A4)
3 FORMAT(2F10.4,F5.0,3F10.4,F5.0,3F5.3)
4 FORMAT(6F10.4)
5 FORMAT(1H1,30X,'CASE',I5,5X,16A4,/)
6 FORMAT(25H '**GEOMETRIC PARAMETERS**' //
  1 34P NUMBER OF RODS F8.0 /
  2 34H ROD DIAMETER (IN.) F8.4 /
  3 34H WIRE WRAP DIAMETER (IN.) F8.4 /
  4 34P WIRE WRAP LEAD (IN.) F8.4 /
  5 34H RADIUS OF DUCT CORNER (IN.) F8.4 /
  6 34H LOOSENESS FACTOR F8.4 /
  7 34H DUCT DIAMETRICAL TOLERANCE (IN.) F8.4 /
  8 34P EDGE GAP (IN.) F8.4 /
  9 34H ROD PITCH (IN.) F8.4 /
  X 34H PITCH-TO-DIAMETER RATIO F8.4 /
  Y 34H DISTANCE ACROSS FLATS (IN.) F8.4 //
7 FORMAT(35H '*OVERALL BUNDLE CHARACTERISTICS*' //
  1 40H TOTAL NUMBER OF SUBCHANNELS F8.0 /
  2 40H TOTAL FREE FLOW AREA (SQ.IN.) F8.4 /
  3 40H TOTAL HEATED PERIMETER (IN.) F8.4 /
  4 40H TOTAL WETTED PERIMETER (IN.) F8.4 /
  5 40H BUNDLE AVERAGE HYDRAULIC DIAMETER (IN.) F8.4 /
  6 40H TOTAL BUNDLE FLOWRATE (GPM) F8.3 /
  7 40H TOTAL BUNDLE FLOWRATE (LBM/MIN) F8.3 /
  8 40H BUNDLE AVERAGE VELOCITY (FT/SEC) F8.3 /
  9 40H BUNDLE AVERAGE REYNOLDS NUMBER F8.0 //
8 FORMAT(42H '**INDIVIDUAL SUBCHANNEL CHARACTERISTICS**',
  1 22X,'CHANNEL TYPE' // 45X,'PERIPHERAL',11X,'INTERIOR',
  2 13X,'CORNER' /)
9 FORMAT(34H NUMBER OF SUBCHANNELS 1F18.0,2F20.0 /
  1 34H FRACTION OF WIRE PER SUBCHANNEL 3F20.6 /

```

C
C
C
C
C


```

2 34H AVERAGE FREE FLOW AREA (SQ.IN.) 3F20.6 /
3 34H HEATED PERIMETER (IN.) 3F20.6 /
4 34H AVERAGE WETTED PERIMETER (IN.) 3F20.6 /
5 34H AVERAGE HYDRAULIC DIAMETER (IN.) 3F20.6 /
6 34H FRACTION OF FLOW PER SUBCHANNEL 3F20.6 /
7 34H SUBCHANNEL VELOCITY RATIO 3F20.6 /
8 34H SUBCHANNEL FLOWRATE (LBM/MIN) 3F20.6 /
9 34H SUBCHANNEL AXIAL VELOCITY (FPS) 3F20.6 /
X 34H SUBCHANNEL REYNOLDS NUMBER 3F20.0 (/)

10 FORMAT(24H **GAP CHARACTERISTICS** /
1 24X,45H GAP SPACING CENTROID-TO-CENTROID DISTANCE /
2 24X,45H (IN.) //
3 24H PERIPHERAL-PERIPHERAL F12.6,F21.6 /
4 24H PERIPHERAL-INTERIOR F12.6,F21.6 /
5 24H PERIPHERAL-CORNER F12.6,F21.6 /
6 24H INTERIOR-INTERIOR F12.6,F21.6 //)

11 FORMAT(21H **WATER TEMPERATURE=,F5.1,' F',' 9H DENSITY=,F6.2,' LBM
X/FT3',' 11H VISCOSITY=,F5.3,' LBM/HR-FT.'//)
12 FORMAT(52H **FLOW SPLIT CALCULATED FROM GIVEN VELOCITY RATIOS./)
13 FORMAT(82H **FLOW SPLIT CALCULATED USING SANGSTER METHOD WITH A FR
X ICTION FACTOR EXPONENT OF ,F5.3 /)
14 FORMAT(36H **EXPECTED AXIAL PRESSURE GRADIENT=, F6.3,' PSI/FOOT OF
X LENGTH' /)

```

C

```

COMMON /GEOM/ DIATOL,FLOOSE,PINS,RC,DPIN,DWIR,LEAD,X1,X4,RATIO,DF,
1 ACHAN(3),PHCHAN(3),PWCHAN(3),DHVD(3),WFAC(3),NC(3),
2 GS(3,3),GDIST(3,3),NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,
3 CONST,REXP,DEXP,TWATER,RHCT,VISCT,WTOT,VTOT,RETOT,
4 W(3),V(3),RE(3),VELFAC(3),FLOFAC(3),DELTAP

DIMENSION TEXT(16)
REAL N,NC,NCTOT,LEAD
99 READ(5,1) KASE,ISPLIT,TEXT
IF(KASE.LE.0) STOP
READ(5,3) DIATOL,FLOOSE,PINS,RC,DPIN,DWIR,LEAD,(WFAC(I),I=1,3)
CALL GEOMAT
READ(5,4) CONST,REXP,TWATER,GTOT

```



```

VISC1= (.84271E+01) - (.18023E+00)*TWATER + (.18975E-02)*TWATER**2
X   - (.79539E-C5)*TWATER**3
SPVCL= (.16554E-01) - (.28305E-04)*TWATER + (.47509E-C6)*TWATER**2
X   - (.24592E-08)*TWATER**3

RHOT=1.0/SPVCL
WTOT=GTOT*RHOT/7.481
IF (ISPLIT.LT.1.) GO TO 50
READ(5,4) (VELFAC(I),I=1,3)
50 CONTINUE
CALL SPLIT(ISPLIT)
WRITE(6,5) KASE,TEXT
WRITE(6,6) PINS,DPIN,DWIR,LEAD,RC,FLCCSE,DIATOL,X1,X4,RATIC,OF
WRITE(6,7) NCOT,AICT,PHOT,PWOT,DHYDAV,GTOT,WICT,VTOT,RETOT
WRITE(6,8)
WRITE(6,9) (NC(I),I=1,3),(WFACT(I),I=1,3),(ACHAN(I),I=1,3),
X   (PHCHAN(I),I=1,3),(PWCHAN(I),I=1,3),(CHYD(I),I=1,3),
X   (FLCFAC(I),I=1,3),(VELFAC(I),I=1,3),(W(I),I=1,3),
X   (V(I),I=1,3),(RE(I),I=1,3)
WRITE(6,10)GS(1,1),GDIST(1,1),GS(1,2),GDIST(1,2),
X   GS(1,3),GDIST(1,3),GS(2,2),GDIST(2,2)
WRITE(6,11) TWATER,RHCT,VISCT
IF (ISPLIT.LT.1) GO TO 60
WRITE(6,12)
GO TO 70
60 WRITE(6,13) REXP
70 CONTINUE
WRITE(6,14) DELTAP
GO TO 99
END

```


SUPROUTINE GECMAT

CALCULATES THE GEOMETRIC CHARACTERISTICS OF HEX ARRAYS

COMMON /GEOM/ DIATOL, FLOOSE, PINS, PC, DPIN, DWIR, LEAD, X1, X4, RATIO, DF,
 1 ACHAN(3), PHCHAN(3), PWCHAN(3), DHYD(3), WFACT(3), NC(3),
 2 GS(3,3), GOIST(3,3), NCTOT, ATOT, PHTOT, PWTOT, DHYDAV,
 3 CCNST, REXP, DEXP, TWATER, RHOT, VISCT, WTOT, VIOT, RETOT,
 4 h(3), V(3), RE(3), VELFAC(3), FLOFAC(3), DELTAP

DIMENSION A(3), PH(3), PW(3)

REAL N, NC, NCTOT, LEAD

PI=3.14159265

C=SQRT(3.C)

APIN=PI*DPIN**2/4.

AWIR=PI*DWIR**2/4.

PERIMP=PI*DPIN

PERIMW=PI*DWIR

N=(-1.+SQRT(1.+4.*(PINS-1.)/3.))/2.

IF(FLOOSE.LE.1.) GO TO 110

RATIO=FLOOSE

X1=DIATOL

XX=C*N*(DPIN*(RATIO-1.)-DWIR)

DIATOL=XX+2.*X1

FLOOSE=XX/DIATOL

110 X1=(1.-FLOOSE)*DIATOL/2.

X2=DPIN/2.+DWIR+X1

X3=FLOOSE*DIATOL/(C*N)

X4=CPIN+X3+DWIR

X5=X4/2.

RATIO=X4/DPIN

DF=2.*(C*N*X5+X2)

ACHAN(1)=X2*X4-APIN/2.-WFACT(1)*AWIR

PHCHAN(1)=PERIMP/2.

PWCHAN(1)=PHCHAN(1)+X4+WFACT(1)*PERIMW

ACHAN(2)=C/4.*X4**2-APIN/2.-WFACT(2)*AWIR

PHCHAN(2)=PHCHAN(1)


```

PWCHAN(2)=PWCHAN(2)+WFACT(2)*PERIMW
ACHAN(3)=1./C*(X2**2-RC**2)-(APIN-PI*RC**2)/6.-WFACT(3)*AWIR
PWCHAN(3)=PWCHAN(1)/3.
PWCHAN(3)=PWCHAN(3)+2./C*(X2-RC)+PI*RC/3.+WFACT(3)*PERIMW
DO 120 I=1,3
120 DHYD(I)=4.*ACHAN(I)/PWCHAN(I)
NC(3)=6.
NC(1)=6.*N
NC(2)=6.*N**2
GS(1,1)=X1+DWIR
GS(1,2)=X3+DWIR
GS(1,3)=GS(1,1)
GS(2,2)=GS(1,2)
GS(3,1)=GS(1,1)
GS(2,1)=GS(1,2)
GDIST(1,1)=X4
GDIST(1,2)=(X4*X2**2/2.-DPIN**3/12.)/(X4*X2-APIN/2.)+X5/C
GDIST(1,3)=X5+PI/12.*(DPIN+DWIR+X1)
GDIST(2,2)=X4/C
GDIST(2,1)=GDIST(1,2)
GDIST(3,1)=GDIST(1,3)
NCTOT=0.0
ATOT=0.0
PHTOT=0.0
PWICT=0.0
DO 130 I=1,3
A(I)=NC(I)*ACHAN(I)
PH(I)=NC(I)*PWCHAN(I)
PW(I)=NC(I)*PWCHAN(I)
NCTOT=NCTOT+NC(I)
ATCT=ATOT+A(I)
PHTCT=PHTOT+PH(I)
PWTOT=PWTOT+PW(I)
130 DHYCAV=4.*ATOT/PWTOT
RETURN
END

```



```

SUBROUTINE SPLIT(JSPLIT)
C
C CALCULATES THE FLOW DISTRIBUTION & PRESSURE DROP IN HEX ARRAYS
C
COMMON /GEOM/ DIATCL,FLOUSE,PINS,RC,DPIN,DWIR,LEAD,X1,X4,RATIO,DF,
1     ACHAN(3),PHCHAN(3),PWCHAN(3),DHYD(3),WFACT(3),NC(3),
2     GS(3,3),GDTST(3,3),NCTOT,ATOT,PHTOT,PWTOT,DHYDAV,
3     CCNST,REXP,DFXP,TWATER,RHCT,VISCT,WTCT,VICT,RETOT,
4     W(3),V(3),RE(3),VELFAC(3),FLOFAC(3),DELTAP
REAL N,NC,NCTOT,LEAC
DEXP=(1.+REXP)/(2.-REXP)
VTOT=WTOT/(RHOT*ATOT)*144./60.
RETCT=WTCT*DHYDAV/(VISCT*ATOT)*720.
PDIST=C.C
DO 210 I=1,3
210 PDIST=PDIST+NC(I)*ACHAN(I)*DHYD(I)**DEXP
IF(JSPLIT.LT.1) GO TO 230
DO 220 I=1,3
220 FLOFAC(I)=VELFAC(I)*ACHAN(I)/ATOT
GO TO 250
DO 240 I=1,3
240 FLOFAC(I)=ACHAN(I)*DHYD(I)**DEXP/PDIST
250 DO 260 I=1,3
W(I)=FLOFAC(I)*WTOT
V(I)=W(I)/(RHOT*ACHAN(I))*144./60.
RE(I)=W(I)*DHYC(I)/(VISCT*ACHAN(I))*720.
260 VELFAC(I)=V(I)/VTOT
C
C CALCULATE EXPECTED PRESSURE DROP USING NCVENDSTERN METHOD
C
FF=CONST/RE(2)**REXP
FM=1.034/RATIO**C.124
IF(LEAD.LT.0.1) GO TO 270
FM=FM+29.7*RATIC**6.94*RE(2)**0.086/(LEAC/DPIN)**2.239
FM=FM**0.885
270 DELTAP=FM*FF*12./DHYD(2)*RHOT*V(2)**2/(2.*32.174*144.)

```


RETURN
END

Data Cards for CALIB

CARD	SPACES	FORMAT	CODE WORD
1	1-5	I5	NPTS

Number of points in calibration curve - corresponds to number of salt solutions used to calibrate the probes plus background.

1	6-10	I5	NCOEFF
---	------	----	--------

Maximum number of coefficients which can be used to fit calibration curves. The order of the curves is NCOEFF - 1.

1	11-15	I5	NCURVES
---	-------	----	---------

Number of calibration curves to be calculated

1	16-20	I5	IN
---	-------	----	----

Secondary storage unit number

1	21-25	I5	IPLOT
---	-------	----	-------

1	26-30	I5	JPLOT
---	-------	----	-------

Calibration curves are plotted for probes IPLOT through JPLOT

1	31-35	I5	NPRT
---	-------	----	------

Controls number of points used in plotting. Use 5 for debugging and 7 for final work.

CARD	SPACES	FORMAT	CODE WORD
2	1-80	I1	IFLAG
3	1-46	I1	IFLAG

Zero (0) for probes which are faulty and one (1)
for good probes.

C CALIB--A PROGRAM TO GENERATE CALIBRATION CURVES FROM 'NCURVS'
 C DATA SETS EACH OF WHICH HAS THE SAME ORDINATES BUT
 C DIFFERENT ABSCISSAS
 C
 C
 C

C EACH DATA SET SHOULD CONSIST OF 'NPTS' POINTS
 C EACH CURVE IS A POLYNOMIAL OF MAXIMUM ORDER (NCOEPP-1)
 C NCOEPP MUST BE LESS THAN OR EQUAL TO NPTS
 C THIS PROGRAM IS DIMENSIONED FOR NPTS<8,NCOEPP<6,NCURVS<126
 C CURVES NUMBERED 'IPLT' THRU 'JPLOT' WILL BE PLOTTED OFFLINE
 C SEE IBM SSP MANUAL FOR DETAIL ON APCH,APPS, AND CNPS
 C

```

1 FORMAT(16I5)
2 FORMAT(/1H , 'THESE ARE COEFFICIENTS OF THE EQUATION FOR PROBE #',
  X I4,' ; XD=',E12.5,' ; XO=',E12.5//8X,8F14.5)
3 FORMAT(/1H , 'X',8F12.6)
4 FORMAT( 1H , 'Y(GIVEN)',8F12.6)
5 FORMAT( 1H , 'Y(CALC.)',8F12.6)
6 FORMAT( 1H , 'ERROR',8F12.6)
7 FORMAT(/1H , 'ERROR IN SUBROUTINE APCH =',I4)
8 FORMAT(/1H , 'ERROR IN SUBROUTINE APPS =',I4)
9 FORMAT(1H , '**CALIBRATION DATA FOLLOWS**' //
  1X , 'SALT CONCENTRATIONS:',8F10.5) //
10 FORMAT(1H , ' (G-SALT/LBM-WATER)' //
  1X , 'SIGNAL RESPONSES (RAW DATA OVER NORMALIZED DATA):' //
  11 FORMAT(1H , ' PROBE #',I4,':',8F10.3)
12 FORMAT(1H , '19X,8F10.3)
13 FORMAT(2I16,F16.3,2E16.6/6E12.5)
14 FORMAT(54H '**GENERATE NEW CALIBRATION CURVES VIA PROGRAM CALIB**//
  1X , 'NUMBER OF DATA POINTS TO FIT=',I4/
  2 1X , 'NUMBER OF COEFFICIENTS IN CURVE FIT=',I4 , ' (MAX)' /
  3 1X , 'NUMBER OF CURVES TO BE FIT=',I4//
  4 1X , 'CALIBRATION DATA READ IN FROM UNIT',I3//)
15 FORMAT(F6.4)
16 FORMAT(8(3X,F3.3,3X))
17 FORMAT(20A4)

```



```

18 FORMAT(/1H, '**CALIBRATION CURVE FOR PROBE#', I4, ' HAS BEEN PLOTTED
   X OFFLINE**')
19 PCRMAT(80I1)
20 FORMAT(/1H, '**NO CALIBRATION CURVE GENERATED FOR PROBE #', I4,
   X ' BECAUSE FLAG =', I2/)

```

C

```

DIMENSION CCOFF(8,126), XDJ(126), XOJ(126), IREZ(126), BAKCAL(126)
DIMENSION Y(8), YC(8), YER(8), X(8,126), COEFF(8), IFLAG(126)
DIMENSION DATI(17), WORK(45)
DIMENSION XPLOT(51), YPLCT(50), XI(8)
EPS=1.0E-5
ETA=5.0E-4

```

C C C

```

READ, SUBTRACT BACKGROUND SIGNAL, AND PRINT CALIBRATION DATA

```

```

READ(5,1) NPTS, NCOEFF, NCURVS, IN, IPLOT, JPLOT, NPERPT
WRITE(6,14) NPTS, NCOEFF, NCURVS, IN
READ(5,19) (IFLAG(J), J=1, NCURVS)
DO 310 I=1, NPTS
  READ(IN,15) Y(I)
  READ(IN,16) (X(I,J), J=1, NCURVS)

```

310

CONTINUE

```

WRITE(6,9) (Y(I), I=1, NPTS)
WRITE(6,10)
DO 312 J=1, NCURVS
  WRITE(6,11) J, (X(I,J), I=1, NPTS)
  BAKCAL(J)=X(1,J)
DO 311 I=1, NPTS

```

```

311 X(I,J)=BAKCAL(J)-X(I,J)
  WRITE(6,12) (X(I,J), I=1, NPTS)

```

312

CONTINUE

C C C

```

GENERATE NCURVS CALIBRATION CURVES FROM THE GIVEN DATA

```

```

DO 360 J=1, NCURVS
  IF (IFLAG(J).GT.0) GO TO 359

```



```

DO 320 I=1,NPTS
  DATI(I)=X(I,J)
  320 DATI(I+NPTS)=Y(I)
  DATI(2*NPTS+1)=-1.0
  CALL APCH(DATI,NPTS,NCOEFF,XD,XO,WORK,IER)
  IF(IER.NE.0) WRITE(6,7) IER
  IER=0
  XDJ(J)=XD
  XOJ(J)=XO
  CALL APFS(WORK,NCOEFF,IRES,-1,EPS,PTA,IER)
  IF(IER.NE.0) WRITE(6,8) IER
  IER=0
  IREZ(J)=IPES
  IPLACE=(IRES-1)*IRES/2
  DC 330 I=1,IRES
  330 COEFF(I)=WORK(IPLACE+I)

  CHECK TO SEE HOW WELL THE CURVES FIT THE GIVEN DATA

  DO 340 L=1,NPTS
    XX=X(L,J)*XDJ(J)+XOJ(J)
    CALL CNPS(YI,XX,COEFF,IRES)
    YC(L)=YI
    YER(L)=Y(L)-YC(L)
  340 CONTINUE
    WRITE(6,2) J,XDJ(J),XOJ(J),(COEFF(I),I=1,IRES)
    WRITE(6,3) (X(I,J),I=1,NPTS)
    WRITE(6,4) (Y(I),I=1,NPTS)
    WRITE(6,5) (YC(I),I=1,NPTS)
    WRITE(6,6) (YER(I),I=1,NPTS)
    DO 350 I=1,IRES
      350 CCOEFF(I,J)=COEFF(I)
      GO TO 360
    359 WRITE(6,20) J,IPLAG(J)
    360 CONTINUE

```

C
C
C

C


```

C      PLOT THE CALIBRATION CURVES FOR PROBES 'IPLOT' THRU 'JPLOT'
C
      IF(IPLOT.LT.1) STOP
      CALL PLOTS(ID,ID,63)
      CALL PLCT (0.0,2.0,-3)
      NX=(NPPTS-1)*NPERPT+1
      DO 390 KPIOT=IPLOT,JPLOT
      IF (IFLAG(KPLOT).GT.0) GO TO 389
      DO 371 I=1,NPPTS
      XI(I)=X(I,KPLOT)
371   DELTAX=(XI(NPPTS)-XI(1))/(NX-1)
      IRES=IREZ(KPLOT)
      DO 372 I=1, IRES
372   COEFF(I)=CCOEF(I,KPLOT)
      XPLOT(1)=XI(1)
      DO 380 I=1,NX
      XX=XPLOT(I)*XDJ(KPLOT)+XOJ(KPLOT)
      CALL CMPS(YY,XX,COEFF,IRES)
      YPLOT(I)=YY
380   XPLOT(I+1)=XPLOT(I)+DELTAX
      CALL PICTUR(7.0,5.0,'SIGNAL',6,'SALT',4,
      X      XI,Y,+NPPTS,.1,0,XPLOT,YPLOT,NX,0.,0)
      WRITE(6,18) KPLOT
      GO TO 390
389   WRITE(6,20) KPLOT,IFLAG(KPLOT)
390   CONTINUE
      CALL ENDPLT(1.0,0.0,999)
      STOP
      END

```


Data Cards For Data Reduction Program

CARD	SPACES	FORMAT	CODE WORD
1	1-5	I5	NPTS
Number of points in calibration curve			
1	6-10	I5	NCOEFF
Maximum number of coefficients which can be used to fit calibration curve.			
1	11-15	I5	NCURVES
Number of calibration curves to be calculated			
1	16-20	I5	IN
Secondary Storage unit number			
1	21-25	I5	IPLOT
I	26-30	I5	JPLOT
Calibration curves are plotted for probes IPLOT through JPLOT.			
1	31-35	I5	NPRT
Controls number of points used plotting			

1	36-40	I5	ICALIB
---	-------	----	--------

Controls whether calibration data is read in from secondary storage or calculated as part of the program. ICALIB = 0 for secondary storage
ICALIB = 1 if calculated in program

2	1-80	I1	IFLAG
---	------	----	-------

3	1-46	I1	IFLAG
---	------	----	-------

0 for good probes and 1 for faulty probes

4	1-10	F10.1	CINJ
---	------	-------	------

Injection concentration in gm/lb of water

4	11-20	F10.1	WINJ
---	-------	-------	------

Injection flow rate in lb/min

4	21-30	F10.1	WTOT
---	-------	-------	------

Total flow rate in lb/min

4	31-60	3F10.6	FLOFAC(I)
---	-------	--------	-----------

Flow factors from output of GEOSPLIT in order of edge, center and corner subchannels

5	1-5	I5	IO
---	-----	----	----

Secondary storage unit number

5	6-10	I5	IEDGE1
5	11-15	I5	IEDGE2

Beginning and ending numbers of edge probes

5	16-20	I5	INJ
---	-------	----	-----

Injection subchannel number

5	21-25	I5	NEDGE1
5	26-30	I5	NEDGE2

For edge injection only, the beginning and ending edge probes to be plotted to a max. of 15. Zero for no plots.

5	31-35	I5	NCHAN
---	-------	----	-------

Total plots to be made in multiples of four up to 24. One for no plots.

6	1-5	I5	ICNER1
6	6-10	I5	ICNER2

Beginning and ending numbers of corner probes

7	1-80	8F10.4	AXPLOT(I)
---	------	--------	-----------

Axial position of printout of planar salt distribution and plots of circumferential salt distribution. Card must be blank, have 4 or 8 positions.

8	1-80	16I5	ICHAN(I)
---	------	------	----------

Numbers in groups of 4 of subchannels to be plotted in addition to edge subchannels plotted for edge injection.


```

THIS PROGRAM DOES THE DATA REDUCTION FOR SALT TRACER EXPERIMENTS

2 FORMAT(16I5)
31 FORMAT(/1H , '**EDGE CHANNELS ARE NUMBERED', I4, ' THRU', I4//
1 1X, '**INJECTION CHANNEL IS NUMBERS', I4//)
32 FOMAT( 1H , '**INJECTION PARAMETERS ARE:'//
1 6X, 'INJECTION FLOWRATE =', F8.5, ' LBM/MIN'//
2 6X, 'INJECTION CONCENTRATION =', F8.3, ' G-SALT/LBM-SOLUTION'//
3 6X, 'BUNDLE AVERAGE SALT CONCENTRATION =', F8.4,
4 ' G-SALT/LBM-WATER'//)
33 FORMAT(20A4/)
34 FORMAT(8(3X, F3.3, 3X))
35 FORMAT(/1H , '**EXPERIMENTAL DATA READ IN FROM UNIT', I3//
1 1X, '**BACKGROUND SIGNALS FOR DATA ARE:', /15(23X, 8F11.3)/)
2 1X, '**EXPERIMENTAL DATA FOLLOWS (RAW DATA OVER NORMALIZED DAT
3A):')
36 FORMAT(F5.2, I5)
37 FORMAT(/1H , 3X, 'AXIAL POSITION #', I3, ' , AXIAL LOCATION =', F6.2,
1 ' INCHES, ROWS MONITORED =', I3/)
38 FORMAT(1H , 'PROBES', I4, ' THRU', I4, 3X, 8F11.3)
39 FORMAT(1H , 22X, 8F11.3)
40 FORMAT(/1H , 3X, 'AXIAL POSITION #', I3, ' , AXIAL LOCATION =', F6.2,
1 ' INCHES, SALT OBSERVED =', F6.4, ' G-SALT/LBM-WATER, SALT MISS
2ED =', F6.4, ' G-SALT/LBM-WATER'//)
41 FORMAT(1H , 'PROBES', I4, ' THRU', I4, 3X, 8F11.4)
42 FORMAT(///1H , '**SALT CONCENTRATIONS FOLLOW:')
43 FORMAT(///1H , '**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT'//
X 3X, 'INCLUDED IN THE MASS BALANCE CALCULATIONS:'//)
44 FORMAT(1H , I24)
45 FORMAT(I10, F10.2, I10, F10.4)
46 FORMAT(8F10.4)
70 FORMAT(80I1)
71 FORMAT(2I16, F16.3, 2E16.6)
72 FORMAT(6E12.5)
73 FORMAT(43H '**OLD CALIBRATION CURVES READ IN FROM UNIT, I3, '***')

```



```

C
99 FORMAT(3F10.1,3F10.6)

COMMON /FAIL/ IFLAG(126)
COMMON /CAL/ CCOEFF(6,126), XDJ(126), XOJ(126), IREZ(126), BAKCAL(126)
COMMON SALT(126,50), AXLOC(50), SUMSAL(50), IAXIAL(8), ICHAN(24)
DIMENSION COEFF(6), ITYPE(126), BAKGND(126), FLOPAC(3)
DIMENSION SIGNAL(126,50), NPOWS(50), YPLOT(50), AXPLLOT(8), ZERO(50)
EQUIVALENCE (SIGNAL(1,1), SALT(1,1))
CALL ERASE(SALT,6000,ZERO,50)
CALL PLOTS(ID,ID,63)
CALL PLOT (0.0,2.0,-3)

C
C
C
READ-IN OR COMPUTE CALIBRATION CURVES

READ(5,2) NPTS,NCOEFF,NCURVS,IN,IPLLOT,JPLOT,NPERPT,ICALIB
READ(5,70) (IFLAG(J),J=1,NCURVS)
IF(ICALIB.GT.0) GO TO 78
DO 77 L=1,NCURVS
IF(IFLAG(L).GT.0) GO TO 77
READ(IN,71) J,IREZ(J),BAKCAL(J),XDJ(J),XOJ(J)
IRES=IREZ(J)
READ(IN,72) (CCOEF(I,J),I=1,IRES)
77 CONTINUE
WRITE(6,73) IN
GO TO 79

78 CALL CALIB(NPTS,NCOEFF,NCURVS,IN,IPLLOT,JPLOT,NPERPT)
79 CONTINUE

C
READ(5,99) CINJ,WINJ,WTOT,(FLOPAC(I),I=1,3)
SALTIN=CINJ*WINJ/WTOT
READ(5,2) IO,IEDGE1,IEDGE2,INJ,NEDGE1,NEDGE2,NCHAN
READ(5,2) ICNER1,ICNER2
READ(5,46) (AXPLOT(I),I=1,8)
READ(5,2) (ICHAN(I),I=1,NCHAN)
DO 80 I=1,NCURVS
ITYPE(I)=2

```



```

IF(I.GE.IEDGE1.ANC.I.LE.IEDGE2) ITYPE(I)=1
IF (I.GE.ICNER1.ANC.I.LE.ICNER2) ITYPE(I)=3
80 CONTINUE
WRITE(6,31) IEDGE1,IEDGE2,INJ
WRITE(6,32) WINJ,CINJ,SALTIN

C
C      READ, SURTRACT BACKGROUND SIGNALS, AND PRINT THE DATA
C
      READ(IC,33)
      READ(IO,33)
      READ(IO,34) (BAKGND(J),J=1,NCURVS)
      WRITE(6,35) IO, (BAKGND(J),J=1,NCURVS)
      NAXLOC=50
      DO 310 L=1,50
      READ(IC,36) AXLCC(L),NROWS(L)
      IF (AXLCC(L).LT.1.) GO TO 320
      DO 305 I=1,8
      305 IF(AXLCC(L).EQ.AXPLOT(I)) IAXIAL(I)=L
      WRITE(6,37) L,AXLCC(L),NROWS(L)
      JSTART=1
      NREAD=NROWS(L)
      DO 309 I=1,NREAD
      JEND=JSTART+7
      IF(I.GE.16) JEND=JSTART+5
      READ(IO,34) (SIGNAL(J,L),J=JSTART,JEND)
      WRITE(6,38) JSTART,JEND,(SIGNAL(J,L),J=JSTART,JEND)
      DO 308 J=JSTART,JEND
      308 SIGNAL(J,L)=BAKGND(J)-SIGNAL(J,L)
      WRITE(6,39) (SIGNAL(J,L),J=JSTART,JEND)
      309 JSTART=JEND+1
      310 CONTINUE
      GO TO 330
      320 NAXLOC=L-1

C
C      CONVERT SIGNAL TO SALT CONCENTRATION AND MAKE MASS BALANCE
C

```



```

330 WRITE(6,42)
DO 349 L=1,NAXLCC
SUMSAL(L)=0.0
NPRCBS=8*NRCWS(L)
IF(NROWS(L).GE.16) NPRCBS=126
DO 345 J=1,NPRCBS
IF(IFLAG(J).GT.C) GC TC 342
XX=SIGNA(L,J)*XCJ(J)+XOJ(J)
IRES=IREZ(J)
DO 341 I=1,IRES
341 COEFF(I)=CCCEF(I,J)
CALL CNPS(VV,XX,COEFF,IRES)
SALT(J,L)=VV
GO TC 345
342 SALT(J,L)=0.0
345 SUMSAL(L)=SUMSAL(L)+FLOFAC(ITYPE(J))*SALT(J,L)
347 DELTA=SALTIN-SUMSAL(L)
WRITE(6,40) L,AXLCC(L),SUMSAL(L),DELTA
JSTART=1
NWRITE=NRCWS(L)
DO 348 I=1,NWRITE
JEND=JSTART+7
IF(1.GE.16) JEND=JSTART+5
WRITE(6,41) JSTART,JEND,(SALT(J,L),J=JSTART,JEND)
348 JSTART=JEND+1
349 CONTINUE
WRITE(6,43)
DO 351 I=1,NCURVS
351 IF(IFLAG(I).GT.C) WRITE(6,44) I
C
C
C
C
PLOT MASS BALANCE VS. AXIAL LOCATION
PLOT INJECTION CHANNEL CONCENTRATION VS. AXIAL LOCATION
DO 391 I=1,NAXLCC
391 VPLOT(I)=SALTIN
CALL PICTUR(7.0,5.0,'AXIAL LOCATION (IN.)',20,

```



```

X      'AVERAGE CONCENTRATION (G/LBM)',29,AXLCC,ZERO,+NAXLOC,0.,0,
X      AXLCC,SUMSAL,+NAXLCC,C.,0,AXLCC,YPLCT,+NAXLOC,0.,0)
      DO 392 I=1,NAXLOC
392    YPLCT(I)=SALT(INJ,I)
      CALL PICTUR(7.0,5.C,'AXIAL LOCATION (IN.)',20,
X      'SALT CONCENTRATION (G/LBM)',26,AXLCC,YPLCT,+NAXLCC,0.,0)
      IF(IAXIAL(1).LE.1.AND.NCHAN.LE.1) GO TO 399
      CALL SALPLT(IEEDGE1,IEEDGE2,INJ,NAXLOC,NECCE1,NEEDGE2,NCHAN)
399    CALL ENDPLOT(1.C,C.C,999)
      STOP
      END

```



```

C
C SUBROUTINE CALIB(NPTS,NCOEFF,NCURVS,IN,IPLOT,JPLOT,NPEEPT)
C
C THIS SUBROUTINE FITS CURVES THRU 'NCURVS' SETS OF DATA
C EACH DATA SET SHOULD CONSIST OF 'NPTS' POINTS
C EACH CURVE IS A POLYNOMIAL OF MAXIMUM ORDER (NCOEFF-1)
C NCOEFF MUST BE LESS THAN OR EQUAL TO NPTS
C THIS PROGRAM IS DIMENSIONED FOR NPTS<8,NCOEFF<6,NCURVS<126
C CURVES NUMBERED 'IPLOT' THRU 'JPLOT' WILL BE PLOTTED OFFLINE
C SEE IBM SSP MANUAL FOR DETAIL ON APCH, APFS, AND CNPS
C
1 FORMAT(20A4)
2 FORMAT(//1H , 'THESE ARE COEFFICIENTS OF THE EQUATION FOR PROBE #',
X I4,',': XD='E12.5,': XO='E12.5//8X,8E14.5)
3 FCRMAT(//1H , 'X',8F12.6)
4 FCRMAT( 1H , 'Y(GIVEN)',8F12.6)
5 FCRMAT( 1H , 'Y(CALC.)',8F12.6)
6 FCRMAT( 1H , 'ERROR',8F12.6)
7 FCRMAT(//1H , 'ERROR IN SUBROUTINE APCH =',I4)
8 FCRMAT(//1H , 'ERROR IN SUBROUTINE APFS =',I4)
9 FCRMAT(1H , '**CALIBRATION DATA FOLLOWS**://
1 X , 'SALT CONCENTRATIONS:',8F10.5)
10 FCRMAT(1H , ' (G-SALT/LBM-WATER) ' //
1 X , 'SIGNAL RESPONSES (RAW DATA OVER NORMALIZED DATA):',//)
11 FCRMAT(1H , ' PROBE #',I4,',':,8F10.3)
12 FCRMAT(1H , '19X,8F10.3)
13 FCRMAT(2I16,F16.3,2E16.6/5E16.6)
14 FCRMAT(54H '**GENERATE NEW CALIBRATION CURVES VIA PROGRAM CALIB**//
1 X , 'NUMBER OF DATA POINTS TO FIT=',I4/
2 X , 'NUMBER OF COEFFICIENTS IN CURVE FIT=',I4,' (MAX) ' //
3 X , 'NUMBER OF CURVES TO BE FIT=',I4//
4 X , 'CALIBRATION DATA READ IN FROM UNIT',I3//)
15 FCRMAT(F6.4)
16 FCRMAT(8(3X,F3.3,3X))
17 FCRMAT(//1H , '**CALIBRATION CURVE FOR PROBE#',I4,' HAS BEEN PLOTTED
X OFFLINE**')
18 FCRMAT(//1H , '**NO CALIBRATION CURVE GENERATED FOR PROBE #',I4,

```



```

C      X      ' BECAUSE FLAG =' , I2 /

COMMON /FAIL/ IFLAG(126)
COMMON /CAL/ CCOEF(6,126),XDJ(126),XOJ(126),IREZ(126),BAKCAL(126)
DIMENSION Y(8),YC(8),YER(8),X(8,126),COEFF(6)
DIMENSION DATI(17),WORK(45)
DIMENSION XPLOT(51),YPLOT(50),XI(8)
EPS=1.0E-5
ETA=5.0E-4

C      READ, SUBTRACT BACKGROUND SIGNAL, AND PRINT CALIBRATION DATA
C
C      WRITE(6,14) NPTS, NCOEFF, NCURVS, IN
C      READ(IN,1)
C      DO 310 I=1,NPTS
C      READ(IN,15) Y(I)
C      READ(IN,16) (X(I,J),J=1,NCURVS)
310 CONTINUE
C      WRITE(6,9) (Y(I),I=1,NPTS)
C      WRITE(6,10)
C      DO 312 J=1,NCURVS
C      WRITE(6,11) J, (X(I,J),I=1,NPTS)
C      BAKCAL(J)=X(1,J)
C      DO 311 I=1,NPTS
311 X(I,J)=BAKCAL(J)-X(I,J)
C      WRITE(6,12) (X(I,J),I=1,NPTS)
312 CONTINUE

C      GENERATE NCURVS CALIBRATION CURVES FROM THE GIVEN DATA
C
C      DO 360 J=1,NCURVS
C      IF (IFLAG(J).GT.0) GO TO 359
C      DO 320 I=1,NPTS
C      DATI(I)=X(I,J)
320 DATI(I+NPTS)=Y(I)
C      DATI(2*NPTS+1)=-1.0

```



```

CALL APCH(DATI,NPTS,NCOEFF,XD,XO,WORK,IFP)
IF(IER.NE.0) WRITE(6,7) IER
IER=0
XDJ(J)=XD
XOJ(J)=XO
CALL APPS(WORK,NCOEFF,IRES,-1,EPS,ETA,IER)
IF(IER.NE.0) WRITE(6,8) IER
IER=0
IREZ(J)=IPES
IPLACE=(IRES-1)*IRES/2
DO 330 I=1,IRES
330 COEFF(I)=WORK(IPLACE+I)

CHECK TO SEE HOW WELL THE CURVES FIT THE GIVEN DATA

DC 340 L=1,NPTS
XX=X(L,J)*XDJ(J)+XOJ(J)
CALL CNPS(YI,XX,COEFF,IRES)
YC(L)=YI
YER(L)=Y(L)-YC(L)
340 CONTINUE
WRITE(6,2) J,XDJ(J),XOJ(J),(COEFF(I),I=1,IRES)
WRITE(6,3) (X(I,J),I=1,NPTS)
WRITE(6,4) (Y(I),I=1,NPTS)
WRITE(6,5) (YC(I),I=1,NPTS)
WRITE(6,6) (YER(I),I=1,NPTS)
DO 350 I=1,IRES
350 CCOEFF(I,J)=COEFF(I)
WRITE(7,13) J,IREZ(J),BAKCAL(J),XDJ(J),XOJ(J),(CCOEF(I,J),I=1,IRES)
GO TO 360
359 WRITE(6,18) J,IFLAG(J)
360 CONTINUE

PLOT THE CALIBRATION CURVES FOR PROBES 'IPLOT' THRU 'JPLOT'

IF(IPLOT.LT.1) RETURN

```



```

NX=(NPTS-1)*NPERPT+1
DO 390 KPLOT=IPLOT,JPLCT
IF (IFLAG(KPLOT).GT.0) GO TO 389
DO 371 I=1,NPTS
371 XI(I)=X(I,KPLOT)
DELTAX=(XI(NPTS)-XI(1))/(NX-1)
IRES=IREZ(KPLOT)
DO 372 I=1,IRES
372 COEFF(I)=CCOEF(I,KPLCT)
XPLOT(1)=XI(1)
DO 380 I=1,NX
XX=XPLOT(I)*XDJ(KPLOT)+XOJ(KPLOT)
CALL CNPS(YY,XX,COEFF,IRES)
YPLOT(I)=YY
380 XPLOT(I+1)=XPLOT(I)+DELTAX
CALL PICTUR(7.0,5.0,'SIGNAL',6,'SALT',4,
X XI,Y,+NPTS,.1,0,XPLOT,YPLOT,NX,0.,0)
WRITE(6,17) KPLOT
GO TO 390
389 WRITE(6,18) KPLOT,IFLAG(KPLOT)
390 CONTINUE
RETURN
END

```



```

SUBROUTINE SALPLOT(IEDGE1, IEDGE2, INJ, NAXLOC, NEDGE1, NEDGE2, NCHAN)

THIS SUBROUTINE WILL PRODUCE CALCOMP PLOTS OF THE CIRCUMFERENTIAL
AND AXIAL SALT TRACER EXPERIMENTAL DATA.
IT WILL PRODUCE UP TO 2 PLOTS OF CIRCUMFERENTIAL DATA, EACH PLOT
CONTAINING 4 AXIAL LOCATIONS.
IT WILL PRODUCE UP TO 6 PLOTS OF AXIAL DATA, EACH PLOT
CONTAINING 4 SUBCHANNELS.
IT WILL ALSO PRODUCE UP TO 8 ONLINF PLOTS OF PLANAR SALT
DISTRIBUTIONS AT THE POSITIONS SPECIFIED AS IAXIAL.

1 FORMAT(///1H, '**CIRCUMFERENTIAL CONCENTRATION PROFILES PLOTTED AT
X THE FOLLOWING AXIAL POSITIONS:')
2 FORMAT(///1H, '**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLL
OWING SUBCHANNELS:')
3 FORMAT(1H, 4I12)
8 FORMAT(1H1, 'AXIAL POSITION #', I3/
1 1X, 'AXIAL LOCATION =', F6.2, ' INCHRS'/
2 1X, 'AVERAGE SALT CONCENTRATION =', F6.4, ' G-SALT/LBM-WATER'///
3 1X, 'SUBCHANNEL SALT CONCENTRATIONS IN MG-SALT/LBM-WATER:'///)

11 FORMAT(1H, 15X, 6I6/)
12 FORMAT(1H, 12X, 6I6/1H, 15X, 5I6/)
13 FORMAT(1H, 9X, 7I6/1H, 12X, 6I6/)
14 FORMAT(1H, 6X, 8I6/1H, 9X, 7I6/)
15 FORMAT(1H, 3X, 9I6/1H, 6X, 8I6/)
16 FORMAT(1H, 16, 42X, I6/)
17 FORMAT(1H, 6X, 8I6/1H, 3X, 9I6/)
18 FORMAT(1H, 9X, 7I6/1H, 6X, 8I6/)
19 FORMAT(1H, 12X, 6I6/1H, 9X, 7I6/)
20 FORMAT(1H, 15X, 5I6/1H, 12X, 6I6/)

COMMON SALT(126, 50), AXLOC(50), SUMSAL(50), IAXIAL(8), ICHAN(24)
DIMENSION YPLOT1(50), YPLOT2(50), YPLOT3(50), YPLOT4(50), XPLOT(50)
DIMENSION M(126)
JJ=2
IF (INJ.GE. IEDGE1.AND. INJ.LE. IEDGE2) JJ=1

```

C


```

C
C
C
GC TO (100,200),JJ
PLOT CIRCUMFERENTIAL PROFILES IF JJ=1
100 IF (IAXIAL(1).LE.1) GO TO 200
JEND=1
IF (IAXIAL(JJ+4).GT.1) JEND=2
NEDGE=NEDGE1
WRITE(6,1)
DO 180 J=1,JEND
IF (J.GT.1) NEDGE=NEDGE2
DO 110 I=IEDGE1,IEDGE2
XPLOT(I)=I
YPLT1(I)=SALT(I,IAXIAL(JJ))
YPLT2(I)=SALT(I,IAXIAL(JJ+1))
YPLT3(I)=SALT(I,IAXIAL(JJ+2))
YPLT4(I)=SALT(I,IAXIAL(JJ+3))
CALL PICTUR(7.0,5.0,'CHANNEL NUMBER',14,
1 'SALT CONCENTRATION (G/LBM)',26,
2 XPLOT,YPLT1,+NEDGE,.1,0,XPLOT,YPLT2,+NEDGE,.1,1,
3 XPLOT,YPLT3,+NEDGE,.1,2,XPLOT,YPLT4,+NEDGE,.1,5)
JJ3=JJ+3
WRITE(6,3) (IAXIAL(I),I=JJ,JJ3)
180 JJ=JJ+4
C
C
C
PLOT AXIAL DETAIL DATA IF NPLOTS > 0
200 NPLOTS=NCHAN/4
IF (NPLOTS.LE.0) GO TO 300
JJ=1
WRITE(6,2)
DO 280 J=1,NPLOTS
DO 210 I=1,NAXLOC
YPLT1(I)=SALT(ICHAN(JJ),I)
YPLT2(I)=SALT(ICHAN(JJ+1),I)
YPLT3(I)=SALT(ICHAN(JJ+2),I)

```



```

210 YPLOT4(I)=SALT(ICHAN(JJ+3),I)
    CALL PICTUP(7.0,5.0,'AXIAL LOCATION (IN.) ',20,
1   'SALT CONCENTRATION (G/LB*)',26,
2   AXLOC,YPLOT1,+NAXLOC,0.,0,AXLOC,YPLOT2,+NAXLOC,0.,0,
3   AXLOC,YPLOT3,+NAXLOC,0.,0,AXLOC,YPLOT4,+NAXLOC,0.,0)
    JJ3=JJ+3
    WRITE(6,3) (ICHAN(I),I=JJ,JJ3)
280 JJ=JJ+4

C
C
C   PLOT PLANAR SALT DISTRIBUTIONS ONLINE AT THE IAXIAL POSITIONS

300 DO 390 I=1,8
    IF(IAXIAL(L).LE.1) GO TO 399
    DO 310 J=1,120
310  M(J)=IFIX(1000.*SALT(J,IAXIAL(L)))
        WRITE(6,8) IAXIAL(L),AXLOC(IAXIAL(L)),SUMSAL(IAXIAL(L))
        WRITE(6,11)      N(123),M(104),M(103),M(102),M(101),M(122)
        WRITE(6,12)      M(105),M(47),M(45),M(21),M(23),M(100),
                        M(48),M(46),M(44),M(22),M(24)
X      WRITE(6,13) M(106),M(42),M(40),M(38),M(17),M(19),M(99),
                        M(43),M(41),M(39),M(16),M(18),M(20)
X      WRITE(6,14) M(107),M(36),M(34),M(32),M(10),M(12),M(14),M(98),
                        M(37),M(35),M(33),M(9),M(11),M(13),M(15)
X      WRITE(6,15) M(108),M(30),M(28),M(26),M(1),M(3),M(5),M(7),M(97),
                        M(31),M(29),M(27),M(25),M(2),M(4),M(6),M(8)
X      WRITE(6,16) M(124),M(121)
        WRITE(6,17) M(56),M(54),M(52),M(50),M(73),M(75),M(77),M(79),
                        M(109),M(55),M(53),M(51),M(49),M(74),M(76),M(78),M(120)
X      WRITE(6,18) M(63),M(61),M(59),M(57),M(81),M(83),M(85),
                        M(110),M(62),M(60),M(58),M(80),M(82),M(84),M(119)
X      WRITE(6,19) M(68),M(66),M(64),M(87),M(89),M(91),
                        M(111),M(67),M(65),M(86),M(88),M(90),M(118)
X      WRITE(6,20) M(72),M(70),M(92),M(94),M(96),
                        M(112),M(71),M(69),M(93),M(95),M(117),
                        M(125),M(113),M(114),M(115),M(116),M(126)
X      WRITE(6,11)
390 CONTINUE

```


Appendix 4

FRICTION FACTOR CALCULATIONS

A4.1. Wall Pressure Drop Data

The approach in calculating friction factors from the wall pressure drop data (tables A4-3 and A4-4) is to average the pressure over the six wall pressure taps at each axial level. The difference between the respective average pressures (table A4-5) yields a friction factor as described below. There is one tap at each level that sees the same wire wrap orientation so that averaging cancels any dynamic effects[21]. Static pressure differences are canceled by placing all the gauges at the same height.

$$\Delta \bar{P} = f \frac{L}{D_e} \frac{\rho \bar{V}^2}{2g_o} \quad (A4-1)$$

$$W = \rho V A_{FT} = 499.74 \text{ G (gpm)} \quad (A4-2)$$

therefore:

$$\bar{V} = \frac{499.74 \text{ G}}{3600 \rho A_{FT}} \quad (A4-3)$$

$$\bar{V} = 0.088 \text{ G} \quad (A4-4)$$

since:

$$f = \frac{2 \Delta \bar{P} D_e g_o}{L \rho \bar{V}^2} \quad (A4-5)$$

therefore:

$$f = \frac{79.37\Delta\bar{P}}{G^2} \Delta P(\text{psi}) \quad \text{A4-6)}$$

and

$$f = \frac{2.873\Delta\bar{P}}{G^2} \Delta P(\text{in. H}_2\text{O}) \quad \text{(A4-7)}$$

A4.2. Injector Rod Pressure Drop Data

The approach in calculating friction factors from the injector rod pressure drop data (tables A4-1 and A4-2) is to measure the slope of the plots of pressure difference relative to pressure tap one at the 42 inch tap level against distance from the bundle exit. The slopes yield a friction factor as shown below. Dynamic effects are neglected since local velocities are indeterminable. For this analysis, the slope of the dashed lines shown in the figures is used.

The slope of the dashed lines is

$$f \frac{\rho \bar{V}^2}{De 2g_o} \quad \text{(A4-8)}$$

(see equation A4-1)

Therefore dividing the slope by $\frac{\rho \bar{V}^2}{De 2g_o}$ yields f .

$$\frac{\rho \bar{V}^2}{2De g_o} = 1.1602 \times 10^{-2} G^2 \quad \text{(A4-9)}$$

A4.3. Novendstern's Friction Factor [15]

$$f = M \frac{0.316}{Re^{0.25}}$$

where:

$$M = \left\{ \frac{1.034}{(P/D_p)^{0.124}} + \frac{29.7(P/D_p)^{6.94} Re^{0.086}}{(h/D_p)^{2.239}} \right\}^{0.885}$$

$$M = \left\{ \frac{1.034}{(.534/.502)^{0.124}} + \frac{29.7(.534/.502)^{6.94} Re^{0.086}}{(4/.502)^{2.239}} \right\}^{0.885}$$

$$M = \left\{ 1.027 + 0.4373 Re^{0.086} \right\}^{0.885}$$

or,

$$M = \left\{ 1.027 + 0.623 G^{0.086} \right\}^{0.885}$$

A4.4. Rehme's Friction Factor [22]

$$f' = \frac{64}{Re'} + \frac{0.0816}{Re'^{0.133}}$$

where $Re' = Re \sqrt{F}$

$$\text{where } F = \left(\frac{P}{D_p} \right)^{0.5} + \left\{ 7.6 \frac{D_s}{h} \left(\frac{P}{D_p} \right)^2 \right\}^{2.16}$$

$$F = \left(\frac{.534}{.502} \right)^{0.5} + \left\{ 7.6 \left(\frac{.032}{4} \right) \left(\frac{.534}{D_p} \right)^2 \right\}^{2.16}$$

$$F = 1.0166$$

A4.5. Blasius' Friction Factor

$$f = \frac{0.316}{Re^{0.25}}$$

Table A4-1

Pressure Drop Readings

EDGE INJECTOR

Flow Rate (gpm)	25		40		60	
Position (in. down from exit)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	1.5	21.2	1.8	43.4	2.45	77
18	1.6	18.	2.1	32	3.12	61
18.5			2.18	31		
19			2.19	30.8		
19.5			2.18	30.5		
20			2.01	32.2	3.4	52
20.5			2.18	30.8		
21			2.02	32		
21.5			2.28	28		
22			2.3	26.7	3.4	52
22.5			2.3	27		
23			2.32	26.5		
23.5			2.35	26.5		
24	1.78	13.3	2.32	26.5	3.48	50
25			2.4	24.8		
26			2.48	23.5	3.79	42
27			2.52	21.6		
28			2.52	25.5	3.8	38
29			2.4	23.2	3.72	41
30	1.9	9.8	2.48	21.3	3.93	33
36	2.08	6.1	2.78	8.8	4.71	20
42	2.29	1.4	3.2	1.2	5.25	1.5
Reference	2.6		3.6		5.6	

Table A4-1 Continued

Flow Rate (gpm)	80		100		125	
Position (in. down from exit)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	3.05	121	3.82	186	5	
13			4.22	177		
14			4.25	176		
15			4.65	165		
16			4.75	163		
17			5.23	149		
18	4.11	94	5.47	136	7.5	204
18.5			5.6	133		
19	4.2	92	5.6	133	7.3	200
19.5			5.58	134		
20	4.18	93	5.53	136	7.19	210
20.5			5.63	132		
21	4.4	87	5.8	127	7.75	196
21.5			5.9	124		
22	4.68	79	6.2	116	8.45	178
22.5			6.38	112		
23	4.8	77	6.35	112	8.6	173
23.5			6.35	112		
24	4.8	77	6.32	119	8.65	174
25	4.95	72.5	6.58	107	9	165
26	5.28	65	7.03	98	9.7	144
27	5.4	62	7.2	92	9.92	138
28	5.1	70	6.9	93	9.78	141
29	5.38	60.2	7.3	86	10.35	127
30	5.78	54	7.92	78	11.05	107
36	6.6	30.5	8.7	44.5	12.15	67
42	7.42	2	10.15	2.5	14.18	3.2
Reference	7.8		10.6		14.8	

Table A4-1 Continued

Flow Rate (gpm)	150		175		200	
Position (in. down from exit)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	6.45		8.22		9.75	
13					10.2	
14					11.05	
15					12.68	
16					12.35	
17					12.7	
18	10	273	12.77	355	15	
18.5			12.85	350		
19	10.15	268	12.85	350	14.8	
19.5			12.8	353		
20	9.92	273	12.6	358	14.9	
20.5			12.9	350		
21	10.65	254	13.45	336	16	400
21.5			13.95	325		
22	11.45	232	14.75	304	17.4	360
22.5			15.15	292.5		
23	11	225	15.15	292.5	17.7	354
23.5			15.05	297		
24	11.6	228	14.92	302	17.5	358
25	12.25	212	15.75	280	18.5	332
26	13.15	186	17	243	20	288
27	13.4	180	17.4	234	20.45	277
28	13.2	183	17.1	241	20.1	285
29	13.85	167	17.88	220	21.05	260
30	14.8	139	19.3	183	22.7	217
36	16.18	92	21.7		25.5	
42	19.2	4.6	24.8	5.25	29.75	6.6
Reference	19.98		25.3		30.5	

TABLE A4-2
PRESSURE DROP READINGS
CENTER INJECTOR

Flow Rate (gpm) Position (in.down from exit)	25		40		60	
	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	1.48	22.2	1.8	43.2	2.49	76
18	1.68	16.4	2.18	31.2	3.21	58
18.5			2.19	31.2		
19			2.11	31		
19.5			2.2	30.2		
20			2.18	31	3.45	51
20.5			2.28	28.5		
21			2.15	28		
21.3			2.28	28		
22			2.32	26.3	3.3	55
22.5			2.3	27		
23			2.33	26.4		
23.5			2.38	25.6		
24	1.75	14.2	2.38	25.2	3.51	48.5
25			2.41	24.3		
26			2.5	22	3.9	4.0
27			2.52	21.6		
28			2.65	21.8	3.92	38
29			2.61	17.5	3.93	35
30	1.92	9.6	2.6	16.8	4.12	29
36	2.08	6.1	2.8	7.8	4.73	18.3
42	2.28	1.3	3.21	1.6	5.2	2.2
Reference	2.6		3.6		5.6	

(continued)

TABLE A4-2 (continued)
 PRESSURE DROP READINGS
 CENTER INJECTOR

Flow Rate (gpm)	80		100		125	
Position (in. down from exit)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	3.19	118	4.0	171	5.35	
13			4.3	174		
14			4.8	163		
15			4.8	163		
16			5.19	152		
17			5.2	150		
18	4.19	92	5.58	134	7.6	199
18.5			5.55	135		
19	4.2	92	5.58	134	7.68	200
19.5			5.68	132		
20	4.3	89	5.72	129	7.9	192
20.5			5.93	126		
21	4.47	84	5.94	123	8.2	184
21.5			6.0	122		
22	4.79	77	6.38	113	8.85	168
22.5			6.3	114		
23	4.78	77.5	6.33	112	8.78	170
23.5			6.55	111		
24	4.92	74	6.65	110	9.1	161
25	5.0	71	6.82	103	9.15	158
26	5.3	63	7.22	95	9.98	137
27	5.38	62	7.25	94	10.0	136
28	5.55	60	7.32	85	10.3	128
29	5.6	56	7.5	80	10.6	121
30	5.8	51	8.05	77.5	11.1	106
36	6.65	28.5	8.85	39.2	12.38	58
42	7.31	4.7	10.0	6.6	13.95	11
Reference	7.8		10.6		14.8	

TABLE A4-2 (continued)

Flow Rate (gpm)	150		175		200	
Position (in. down from exit)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
12	7.03		9.1		10.32	
13					11.02	
14					12.5	
15					12.35	
16					12.4	
17					12.6	
18	10.15	268	12.52	358	15	
18.5			12.7	353		
19	10.05	271	12.73	355	15	
19.5			13.0	347		
20	10.42	259	13.1	347	15.65	
20.5			13.78	325		
21	10.9	247	13.85	326	16.35	388
21.5			14.02	322		
22	11.75	225	15.08	293	17.8	348
22.5			14.9	300		
23	11.65	227	14.95	298	17.6	355
23.5			15.25	290		
24	12.18	214	15.6	282	17.4	360
25	12.5	206	16.01	269	18.9	320
26	13.25	183	17.15	238	20.2	284
27	13.25	182	17.1	240	20.1	288
28	13.7	171	17.73	223	19.02	317
29	14.05	162	18.22	212	21.4	253
30	14.83	140	19.25	184	22.7	217
36	16.5	78	21.25	112	26.35	
42	18.88	15	24.2	21.6	29	27.2
Reference	19.98		25.3		30.5	

TABLE A4-3
Pressure Readings
PRESSURE TAPS

42 Inches Below Exit

Pressure Tap	1		2		3	
Flow Rate (gpm)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
0	1.75		1.3	0	1.3	0
5	1.8		1.4	0.25	1.38	0.5
10	1.9		1.53	0.25	1.5	2.0
15	2		1.7	0.25	1.73	1.85
20	2.2		1.9	0.25	1.88	1.5
25	2.6		2.3	0.25	2.22	1.8
30	2.85		2.5	0.6	2.48	1.8
35	3.25		2.9	0.5	2.85	2.1
40	3.6		3.26	0.6	3.2	2.25
45	4.2		3.78	0.7	3.7	2.4
50	4.8		4.38	0.75	4.3	2.8
60	5.6		5.3	0.7	5.2	3.1
70	6.75		6.37	0.75	6.28	4.0
80	7.8		7.45	0.8	7.33	4.0
90	9.1		8.71	1.1	8.58	4.5
100	10.6		10.08	1.25	9.93	5.1
125	14.8		14.22	1.75	14	8.4
150	19.98		19.3	2.6	18.95	12.2
175	25.3		24.85	3.4	24.3	17.7
200	30.5		29.9	4.2	29.2	22.2

TABLE A4-3 (continued)

Pressure Readings

PRESSURE TAPS

42 Inches Below Exit

Pressure Tap	4		5		6	
Flow Rate (gpm)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
0	1.3	0.	1.3	0	1.3	0
5	1.375	0.5	1.38	0.25	1.38	1.9
10	1.5	0.25	1.5	0.8	1.5	0.2
15	1.8	0.4	1.8	0.6	1.78	0.3
20	1.95	0.5	1.98	0.75	2.0	0.2
25	2.28	0.8	2.28	0.8	2.3	0.2
30	2.5	1.25	2.5	1.2	2.52	0.3
35	2.85	1.75	2.9	1.5	2.92	0.4
40	3.2	2.0	3.2	1.6	3.22	0.4
45	3.68	2.5	3.7	2.0	3.78	0.5
50	4.2	3.2	4.25	2.5	4.3	0.5
60	5.15	4.5	5.2	3.0	5.3	0.6
70	6.18	6.0	6.28	3.8	6.4	0.7
80	7.22	7.3	7.28	4.7	7.4	0.75
90	8.42	9.25	8.48	5.6	8.72	0.8
100	9.7	11.15	9.82	6.5	10.18	0.8
125	13.65	17.6	13.95	10	14.22	1.4
150	18.45	25.4	18.75	12.6	19.28	1.7
175	23.7	35	24.28	18.25	24.9	2.1
200	28.5	43.7	29.25	22	30	2.2

TABLE A4-4

Pressure Readings

PRESSURE TAPS

12 Inches Below Exit

Pressure Tap	1		2		3	
Flow Rate (gpm)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
0	1.3	0	1.3	0	1.3	0
5	1.39	2.0	1.375	2.0	1.3	2.0
10	1.35	5.0	1.35	5.0	1.35	5.0
15	1.5	10.1	1.48	10.1	1.48	10.0
20	1.51	13.75	1.52	13.6	1.51	13.4
25	1.6	20.25	1.6	20.2	1.62	19.8
30	1.68	25.25	1.69	25.1	1.7	24.6
35	1.8	32.7	1.8	32.5	1.81	31.7
40	1.82	39.25	1.88	39.1	1.89	38.3
45	1.98	50	2.0	49.5	2.02	48.3
50	2.15	60	2.18	59.	2.2	57
60	2.4	79	2.45	77.5	2.5	76
70	2.68	102.5	2.78	99.	2.83	97
80	2.99	123	3.05	122	3.17	118
90	3.35	147	3.49	144.	3.6	140
100	3.78	178	3.9	174.	4.1	170
125	5.1	253	5.32	247.5	5.6	241
150	6.3	361	6.62	352.	7.05	340
175	7.93		8.36		8.95	
200	9.3		9.88		10.65	

TABLE A4-4 (continued)

Pressure Tap

Flow Rate (gpm)	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O	P _{abs} psi	P _{dif} in.H ₂ O
0	1.3	0	1.3	0	1.3	0
5	1.3	2.0	1.3	2.0	1.3	2.0
10	1.35	5.0	1.35	5.0	1.35	5.0
15	1.48	10.1	1.48	10.1		
20	1.51	13.3	1.5	13.4	1.5	13.5
25	1.63	19.5	1.63	19.75	1.63	20
30	1.7	24.2	1.7	24.5	1.69	24.8
35	1.85	31.1	1.82	31.75	1.82	32
40	1.9	37.4	1.89	37.9	1.85	38.6
45	2.08	47.2	2.07	47.7	2.03	48.7
50	2.27	53	2.22	54	2.2	57.5
60	2.58	75	2.52	74	2.47	7.75
70	2.92	94	2.88	97	2.8	98
80	3.28	115	3.2	117.5	3.1	120
90	3.72	137.5	3.63	139	3.51	142
100	4.22	166	4.14	168	4.0	172
125	5.75	236	5.58	240	5.65	238
150	7.38	332	7.2	337.5	7.8	347
175	9.35		9.015		8.61	
200	11.17		11.05		10.4	

Table A4-5

Average Pressure Calculations

Flow Rate (gpm)	42 Inches Below Exit		12 Inches Below Exit		Pressure Difference	
	\bar{P}_{abs} psi	\bar{P}_{dif} in.H ₂ O	\bar{P}_{abs} psi	\bar{P}_{dif} in.H ₂ O	\bar{P}_{abs} psi	\bar{P}_{dif} in.H ₂ O
5	1.45	0.567	1.33	2	0.12	1.43
10	1.572	0.583	1.35	5	0.22	4.42
15	1.8	0.566	1.48	10.1	0.32	9.53
20	1.985	0.533	1.51	13.49	0.48	12.96
25	2.33	0.642	1.62	19.92	0.71	19.28
30	2.56	0.858	1.69	24.74	0.87	23.88
35	2.945	1.042	1.82	31.96	1.13	30.92
40	3.28	1.142	1.87	38.43	1.41	37.28
45	3.81	1.35	2.03	48.57	1.78	47.22
50	4.37	1.625	2.2	56.75	2.16	55.13
60	5.29	1.98	2.49	76.5	2.8	74.52
70	6.38	2.54	2.815	97.92	3.57	95.38
80	7.41	2.925	3.13	119.25	4.28	116.33
90	8.67	3.54	3.55	141.58	5.12	138.04
100	10.05	4.13	4.02	171.33	6.02	167.2
125	14.14	6.525	5.5	242.58	8.64	236.06
150	19.12	9.08	7.06	344.92	12.06	335.84
175	24.56	12.74	8.7		15.86	
200	29.64	15.72	10.41		19.23	

Table A4-6 Friction Factor Results

Flow Rate (gpm)	Reynolds Number	Friction Factor $f(\bar{P}_{abs})$	Friction Factor From Data $f(\bar{P}_{dif})$	Calculated Friction Factors $\frac{M \cdot 316}{Re^{.25}}$	Friction Factors f'	Friction Factors $\frac{64}{Re}$
5	200	0.399				0.32
10	308	0.176	0.164			
15	617	0.127	0.127			
	925	0.112	0.122			0.064
20	1000					
	1233	0.094	0.093			
	1500					0.0427
25	1542	0.090	0.089			
30	1850	0.077	0.076			
	2000					0.032
35	2158	0.073	0.073			
40	2467	0.070	0.067	0.065		
	2500			0.0783	0.0447	0.054
45	2775	0.070	0.067			
50	3084	0.069	0.063	0.0728	0.041	
60	3500	0.062	0.060			
70	3700	0.058	0.056			
	4317			0.069	0.039	0.041
80	4500	0.053	0.052			
90	4934	0.050	0.049	0.0648	0.036	0.0361
	5550					
100	6000	0.048	0.048			
	6167			0.0582	0.032	0.030
125	7709	0.044	0.043			
150	9251	0.043	0.043			
	10000			0.0582	0.032	0.030
175	10792	0.041				
	12000		0.039		0.030	0.029
200	12334	0.038				
	14000		0.037	0.054	0.029	

Appendix 5

MIXING DATA

Listed in the order specified below are the mixing data for the mixing experiments analyzed. The readings are in grams of salt per pound of water.

Mixing Data

1. Central Injection - 25 gpm ($Re = 1542$)
2. Central Injection - 185 gpm ($Re = 11410$)
3. Edge Injection - 25 gpm ($Re = 1542$)
4. Edge Injection - 185 gpm ($Re = 11410$)
5. Peripheral Injection - 25 gpm ($Re = 1542$)

A5.1. Central Injection Mixing Data (gm/lbm)

Injection Subchannel: 50

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.041 lbm/min

**SALT CONCENTRATIONS FOLLOW:

AXIAL POSITION # 1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0006 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0275	0.0192	0.0145	0.0079	0.0018	0.0015	-0.0002	0.0002
PROBES 9 THRU 16	0.0107	0.0082	0.0062	0.0014	0.0003	-0.0001	-0.0001	0.0038
PROBES 17 THRU 24	0.0009	0.0001	0.0003	0.0003	0.0001	0.0000	0.0023	0.0024
PROBES 25 THRU 32	0.0294	0.0248	0.0173	0.0139	0.0031	0.0043	0.0001	0.0136
PROBES 33 THRU 40	0.0147	0.0070	0.0116	0.0088	-0.0001	0.0030	0.0048	0.0024
PROBES 41 THRU 48	0.0340	C.0054	0.0002	-0.0005	0.0006	0.0002	-0.0005	0.0005
PROBES 49 THRU 56	0.0271	0.0291	0.0233	0.0162	0.0140	0.0126	0.0001	0.0000
PROBES 57 THRU 64	0.0221	0.0164	0.0152	0.0059	0.0021	0.0016	0.0042	0.0145
PROBES 65 THRU 72	0.0029	0.0029	0.0002	0.0003	0.0004	0.0004	0.0002	-0.0008
PROBES 73 THRU 80	0.0196	0.0002	-0.0000	0.0016	0.0340	0.0138	0.0172	0.0227
PROBES 81 THRU 88	0.0124	0.0050	0.0007	-0.0006	-0.0000	0.0055	0.0051	0.0030
PROBES 89 THRU 96	0.0041	0.0011	-0.0003	-0.0006	0.0074	0.0096	-0.0003	0.0055
PROBES 97 THRU 104	0.0013	0.0003	0.0000	-0.0001	0.0017	0.0000	-0.0001	-0.0005
PROBES 105 THRU 112	0.0007	0.0003	0.0039	0.0002	0.0004	0.0033	0.0001	0.0014
PROBES 113 THRU 120	0.0006	-0.0006	-0.0004	-0.0004	0.0003	0.0002	0.0037	0.0007
PROBES 121 THRU 126	0.0002	0.0001	-0.0004	0.0002	0.0012	-0.0003		

AXIAL POSITION # 2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED = 0.0044 G-SALT/LBM-WATER, SALT MISSED = 0.0005 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0324	0.0177	0.0093	0.0029	-0.0004	0.0004	-0.0001	0.0004
PROBES 9 THRU 16	0.0160	0.0088	0.0044	0.0001	-0.0001	-0.0001	0.0000	0.0047
PROBES 17 THRU 24	0.0207	0.0001	0.0003	0.0004	0.0002	-0.0000	0.0021	0.0018
PROBES 25 THRU 32	0.0381	0.0380	0.0285	0.0196	0.0098	0.0064	0.0001	0.0205
PROBES 33 THRU 40	0.0189	0.0162	0.0148	0.0125	0.0004	0.0054	0.0115	0.0061
PROBES 41 THRU 48	0.0080	0.0081	0.0002	-0.0005	0.0011	0.0011	-0.0005	0.0014
PROBES 49 THRU 56	0.0205	0.0353	0.0314	0.0281	0.0158	0.0142	0.0004	-0.0000
PROBES 57 THRU 64	0.0144	0.0143	0.0172	0.0037	0.0017	0.0010	0.0045	0.0106
PROBES 65 THRU 72	0.0007	0.0070	0.0002	0.0004	0.0002	0.0003	0.0003	-0.0008
PROBES 73 THRU 80	0.0081	0.0002	0.0001	0.0005	0.0000	0.0098	0.0075	0.0168
PROBES 81 THRU 88	0.0031	-0.0002	-0.0002	-0.0003	0.0008	0.0014	0.0022	0.0000
PROBES 89 THRU 96	0.0001	0.0002	0.0003	-0.0005	0.0042	0.0035	-0.0002	0.0028
PROBES 97 THRU 104	0.0017	0.0003	0.0000	-0.0001	0.0013	0.0002	-0.0008	0.0011
PROBES 105 THRU 112	0.0008	0.0003	0.0039	0.0002	0.0003	0.0003	0.0019	0.0019
PROBES 113 THRU 120	0.0006	-0.0006	-0.0002	0.0002	0.0004	0.0001	0.0033	-0.0005

AXIAL POSITION # 3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0009 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0391	0.0212	0.0118	0.0040	-0.0002	0.0004	-0.0001	0.0003
PROBES 9 THRU 16	0.0122	0.0068	0.0030	-0.0000	-0.0001	-0.0001	0.0000	0.0025
PROBES 17 THRU 24	0.0003	0.0001	0.0003	0.0003	0.0001	0.0001	0.0012	0.0010
PROBES 25 THRU 32	0.0461	0.0377	0.0212	0.0141	0.0018	0.0026	0.0001	0.0193
PROBES 33 THRU 40	0.0155	0.0074	0.0113	0.0077	-0.0001	0.0025	0.0055	0.0010
PROBES 41 THRU 48	0.0026	0.0036	0.0002	-0.0007	0.0002	0.0001	-0.0003	0.0005
PROBES 49 THRU 56	0.0291	0.0388	0.0289	0.0207	0.0131	0.0107	-0.0001	0.0002
PROBES 57 THRU 64	0.0235	0.0164	0.0170	0.0034	0.0037	0.0005	0.0034	0.0122
PROBES 65 THRU 72	0.0008	0.0058	0.0003	0.0004	0.0002	0.0003	0.0003	-0.0008
PROBES 73 THRU 80	0.0165	0.0001	0.0000	0.0007	0.0007	0.0112	0.0149	0.0257
PROBES 81 THRU 88	0.0081	0.0013	-0.0004	-0.0006	0.0004	0.0027	0.0052	0.0010
PROBES 89 THRU 96	0.0002	0.0002	-0.0000	-0.0009	0.0049	0.0060	-0.0003	0.0020

AXIAL POSITION # 4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0006 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0329	0.0146	0.0051	-0.0002	-0.0003	0.0002	-0.0000	0.0005
PROBES 9 THRU 16	0.0162	0.0038	0.0010	-0.0001	0.0000	-0.0001	0.0002	0.0016

AXIAL POSITION # 5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBM-WATER, SALT MISSED = 0.0007 G-SALT/LBM-WATER

PROBES 17 THRU 24	0.0002	0.0003	0.0002	0.0001	0.0001	0.0001	0.0033	0.0018
PROBES 25 THRU 32	0.0574	0.0502	0.0314	0.0141	0.0055	0.0031	0.0031	0.0239
PROBES 33 THRU 40	0.0229	0.0171	0.0118	0.0033	0.0321	0.0082	0.0031	0.0031
PROBES 41 THRU 48	0.0093	0.0003	-0.0006	0.0003	0.0003	-0.0004	0.0010	0.0010
PROBES 49 THRU 56	0.0119	0.0417	0.0390	0.0173	0.0142	0.0000	0.0001	0.0001
PROBES 57 THRU 64	0.0058	0.0120	0.0022	0.0014	0.0006	0.0049	0.0049	0.0049
PROBES 65 THRU 72	C.0002	0.0046	0.0003	0.0002	0.0302	0.0033	-0.0008	-0.0008
PROBES 73 THRU 80	0.0037	0.0001	0.0004	-0.0001	0.0061	0.0030	0.0112	0.0112
PROBES 81 THRU 88	C.0009	-0.0001	0.0007	0.0002	0.0009	0.0004	0.0003	0.0002
PROBES 89 THRU 96	C.0008	0.0004	0.0006	0.0001	0.0024	-0.0012	-0.0002	0.0024

AXIAL POSITION # 6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBM-WATER, SALT MISSED = 0.0007 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0512	0.0222	0.0112	-0.0006	0.0003	0.0002	0.0002	0.0005
PROBES 9 THRU 16	0.0148	0.0059	0.0026	-0.0001	-0.0001	0.0002	0.0002	0.0015
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0003	0.0002	0.0040	0.0040	0.0010
PROBES 25 THRU 32	0.0603	0.0454	0.0203	0.0005	0.0013	0.0001	0.0001	0.0174
PROBES 33 THRU 40	0.0153	0.0051	0.0092	0.0044	0.0009	0.0035	0.0035	-0.0002
PROBES 41 THRU 48	C.0017	0.0044	0.0002	-0.0003	0.0001	-0.0000	0.0005	0.0005
PROBES 49 THRU 56	0.0386	0.0584	0.0344	0.0119	0.0065	0.0000	0.0002	0.0002
PROBES 57 THRU 64	0.0265	0.0155	0.0178	0.0004	0.0003	0.0024	0.0024	0.0098
PROBES 65 THRU 72	0.0002	0.0027	0.0004	0.0002	0.0002	0.0004	-0.0007	-0.0007
PROBES 73 THRU 80	0.0144	0.0002	0.0002	-0.0001	0.0097	0.0116	0.0247	0.0247
PROBES 81 THRU 88	0.0043	-0.0002	0.0001	0.0005	0.0009	0.0024	0.0000	0.0000
PROBES 89 THRU 96	0.0304	0.0003	0.0005	-0.0000	0.0020	-0.0002	0.0024	0.0024

AXIAL POSITION # 7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED = 0.0039 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0429	0.0215	0.0112	-0.0006	0.0003	0.0003	0.0003	0.0005
PROBES 9 THRU 16	0.0069	0.0027	0.0009	-0.0001	-0.0001	0.0002	0.0002	0.0007
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0002	0.0001	0.0033	0.0033	0.0018
PROBES 25 THRU 32	0.0503	0.0386	0.0189	0.0004	0.0023	0.0032	0.0032	0.0098
PROBES 33 THRU 40	0.0135	0.0024	0.0084	-0.0001	0.0006	0.0015	-0.0005	-0.0005
PROBES 41 THRU 48	0.0010	0.0030	-0.0003	0.0002	0.0002	-0.0002	0.0004	0.0004
PROBES 49 THRU 56	0.0433	0.0498	0.0394	0.0133	0.0090	-0.0000	0.0005	0.0005
PROBES 57 THRU 64	0.0353	0.0199	0.0260	0.0006	0.0004	0.0018	0.0120	0.0120
PROBES 65 THRU 72	0.0007	0.0058	0.0003	0.0002	0.0003	0.0003	-0.0008	-0.0008
PROBES 73 THRU 80	0.0259	0.0002	0.0001	0.0004	0.0116	0.0177	0.0337	0.0337
PROBES 81 THRU 88	0.0103	0.0009	-0.0004	0.0005	0.0025	0.0065	0.0004	0.0004

AXIAL POSITION # 8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0009 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0376	0.0155	0.0049	-0.0003	0.0002	0.0002	0.0006	0.0006
-----------------	--------	--------	--------	---------	--------	--------	--------	--------

AXIAL POSITION # 9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED = 0.0035 G-SALT/LBM-WATER, SALT MISSED = 0.0014 G-SALT/LBM-WATER											
PROBES 9 THRU 16	0.0162	0.0032	0.0002	0.0001	0.0002	0.0002	0.0000	0.0003	0.0003	0.0012	
PROBES 17 THRU 24	0.0002	0.0002	0.0004	0.0003	0.0002	0.0002	0.0003	0.0005	0.0005	0.0010	
PROBES 25 THRU 32	0.0524	0.0596	0.0466	0.0280	0.0100	0.0097	0.0010	0.0064	0.0064	0.0229	
PROBES 33 THRU 40	0.0228	0.0197	0.0156	0.0090	0.0090	0.0092	0.0001	0.0002	0.0002	0.0017	
PROBES 41 THRU 48	0.0071	0.0061	0.0002	0.0005	0.0002	0.0002	0.0001	0.0002	0.0002	0.0008	
PROBES 49 THRU 56	0.0103	0.0424	0.0417	0.0418	0.0161	0.0161	0.0131	0.0001	0.0001	0.0003	
PROBES 57 THRU 64	0.0050	0.0116	0.0131	0.0006	0.0004	0.0004	0.0003	0.0014	0.0014	0.0043	
PROBES 65 THRU 72	0.0002	0.0015	0.0005	0.0004	0.0002	0.0002	0.0003	0.0004	0.0004	0.0007	
PROBES 73 THRU 80	0.0015	0.0001	0.0001	0.0003	0.0002	0.0002	0.0004	0.0014	0.0014	0.0061	
PROBES 81 THRU 88	0.0003	0.0004	0.0014	0.0008	0.0008	0.0008	0.0004	0.0002	0.0002	0.0003	
PROBES 89 THRU 96	0.0008	0.0003	0.0005	0.0003	0.0004	0.0004	0.0020	0.0000	0.0000	0.0016	

AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0569	0.0234	0.0106	0.0011	0.0002	0.0002	0.0002	0.0002	0.0002	0.0006	
PROBES 9 THRU 16	0.0129	0.0055	0.0016	0.0003	0.0000	0.0000	0.0000	0.0004	0.0004	0.0010	
PROBES 17 THRU 24	0.0001	0.0001	0.0004	0.0003	0.0002	0.0002	0.0003	0.0006	0.0006	0.0010	
PROBES 25 THRU 32	0.0551	0.0405	0.0157	0.0104	0.0001	0.0001	0.0001	0.0001	0.0001	0.0151	
PROBES 33 THRU 40	0.0135	0.0024	0.0073	0.0014	0.0001	0.0001	0.0003	0.0002	0.0002	0.0005	
PROBES 41 THRU 48	0.0011	0.0023	0.0002	0.0003	0.0001	0.0001	0.0003	0.0002	0.0002	0.0003	
PROBES 49 THRU 56	0.0330	0.0531	0.0292	0.0147	0.0073	0.0073	0.0036	0.0002	0.0002	0.0004	
PROBES 57 THRU 64	0.0198	0.0130	0.0133	0.0003	0.0002	0.0002	0.0003	0.0010	0.0010	0.0069	
PROBES 65 THRU 72	0.0002	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0005	0.0005	0.0004	
PROBES 73 THRU 80	0.0113	0.0001	0.0002	0.0003	0.0001	0.0001	0.0003	0.0007	0.0007	0.0257	
PROBES 81 THRU 88	0.0022	0.0002	0.0008	0.0011	0.0014	0.0014	0.0005	0.0007	0.0007	0.0002	
PROBES 89 THRU 96	0.0009	0.0005	0.0004	0.0002	0.0012	0.0012	0.0024	0.0000	0.0000	0.0012	

AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED = 0.0033 G-SALT/LBM-WATER, SALT MISSED = 0.0016 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0415	0.0217	0.0112	0.0013	0.0006	0.0002	0.0002	0.0001	0.0001	0.0007	
PROBES 9 THRU 16	0.0033	0.0010	0.0000	0.0002	0.0000	0.0000	0.0000	0.0002	0.0002	0.0003	
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	
PROBES 25 THRU 32	0.0530	0.0341	0.0140	0.0095	0.0001	0.0006	0.0006	0.0002	0.0002	0.0059	
PROBES 33 THRU 40	0.0108	0.0005	0.0039	0.0023	0.0001	0.0004	0.0004	0.0002	0.0002	0.0002	
PROBES 41 THRU 48	0.0003	0.0023	0.0002	0.0001	0.0000	0.0000	0.0004	0.0003	0.0003	0.0003	
PROBES 49 THRU 56	0.0483	0.0557	0.0367	0.0162	0.0105	0.0105	0.0032	0.0002	0.0002	0.0005	
PROBES 57 THRU 64	0.0397	0.0201	0.0260	0.0028	0.0002	0.0002	0.0003	0.0024	0.0024	0.0106	
PROBES 65 THRU 72	0.0002	0.0023	0.0005	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0003	
PROBES 73 THRU 80	0.0113	0.0001	0.0002	0.0004	0.0000	0.0000	0.0106	0.0170	0.0170	0.0291	
PROBES 81 THRU 88	0.0087	0.0004	0.0002	0.0004	0.0011	0.0011	0.0010	0.0040	0.0040	0.0001	
PROBES 89 THRU 96	0.0003	0.0003	0.0006	0.0002	0.0001	0.0001	0.0035	0.0000	0.0000	0.0016	

AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0445	0.0176	0.0052	0.0002	0.0005	0.0002	0.0002	0.0001	0.0001	0.0003	
PROBES 9 THRU 16	0.0061	0.0016	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0004	
PROBES 17 THRU 24	0.0002	0.0006	0.0004	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	
PROBES 25 THRU 32	0.0586	0.0411	0.0161	0.0106	0.0001	0.0001	0.0001	0.0001	0.0001	0.0134	
PROBES 33 THRU 40	0.0132	0.0016	0.0050	0.0004	0.0001	0.0001	0.0005	0.0007	0.0007	0.0004	
PROBES 41 THRU 48	0.0005	0.0010	0.0003	0.0001	0.0001	0.0001	0.0006	0.0001	0.0001	0.0003	
PROBES 49 THRU 56	0.0339	0.0588	0.0342	0.0169	0.0089	0.0089	0.0032	0.0002	0.0002	0.0004	
PROBES 57 THRU 64	0.0212	0.0138	0.0161	0.0003	0.0002	0.0002	0.0003	0.0014	0.0014	0.0057	
PROBES 65 THRU 72	0.0002	0.0011	0.0006	0.0003	0.0003	0.0003	0.0003	0.0006	0.0006	0.0004	
PROBES 73 THRU 80	0.0115	0.0001	0.0002	0.0003	0.0002	0.0002	0.0005	0.0005	0.0005	0.0217	
PROBES 81 THRU 88	0.0017	0.0001	0.0008	0.0011	0.0010	0.0010	0.0003	0.0004	0.0004	0.0002	
PROBES 89 THRU 96	0.0012	0.0003	0.0006	0.0003	0.0006	0.0006	0.0020	0.0000	0.0000	0.0012	

AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0501	0.0167	0.0051	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002	0.0003	

PROBES	9 THRU	16	0.0224	0.0057	0.0009	0.0001	0.0002	0.0012
PROBES	17 THRU	24	0.0302	0.0003	0.0003	0.0003	0.0008	0.0018
PROBES	25 THRU	32	0.0719	0.0355	0.0170	0.0310	0.0029	0.0312
PROBES	33 THRU	40	0.0268	0.0192	0.0058	0.0010	0.0076	0.0010
PROBES	41 THRU	48	0.0553	0.0038	-0.0002	0.0001	0.0002	0.0005
PROBES	49 THRU	56	0.0067	0.0438	0.0300	0.0096	0.0065	0.0005
PROBES	57 THRU	64	0.0042	0.0071	0.0004	0.0003	0.0014	0.0021
PROBES	65 THRU	72	0.0002	-0.0001	0.0003	0.0002	0.0005	-0.0005
PROBES	73 THRU	80	0.0010	0.0001	0.0004	0.0003	0.0034	0.0128
PROBES	81 THRU	88	0.0003	0.0005	0.0008	0.0009	0.0033	0.0006
PROBES	89 THRU	96	0.0012	0.0003	0.0007	-0.0010	0.0000	0.0012

AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0646	0.0254	0.0009	-0.0003	0.0002	0.0003
PROBES	9 THRU	16	0.0169	0.0086	-0.0000	0.0001	0.0002	0.0009
PROBES	17 THRU	24	0.0002	0.0002	0.0003	0.0003	0.0004	-0.0001
PROBES	25 THRU	32	0.0735	0.0509	0.0086	-0.0001	0.0002	0.0181
PROBES	33 THRU	40	0.0137	0.0021	0.0014	-0.0000	0.0007	-0.0005
PROBES	41 THRU	48	0.0004	-0.0005	-0.0002	0.0001	0.0005	0.0003
PROBES	49 THRU	56	0.0366	0.0737	0.0172	0.0036	0.0001	0.0004
PROBES	57 THRU	64	0.0192	0.0108	0.0001	0.0002	0.0003	0.0031
PROBES	65 THRU	72	0.0002	-0.0001	0.0003	0.0003	0.0002	-0.0004
PROBES	73 THRU	80	0.0070	0.0001	0.0003	0.0000	0.0059	0.0301
PROBES	81 THRU	88	0.0009	0.0003	0.0011	0.0003	0.0003	0.0003
PROBES	89 THRU	96	0.0011	0.0003	0.0007	-0.0006	0.0020	0.0012

AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0429	0.0208	0.0008	-0.0005	0.0002	0.0003
PROBES	9 THRU	16	0.0019	0.0001	0.0002	0.0001	0.0001	0.0002
PROBES	17 THRU	24	0.0003	0.0001	0.0003	0.0005	0.0005	0.0003
PROBES	25 THRU	32	0.0593	0.0366	0.0059	0.0002	0.0016	0.0028
PROBES	33 THRU	40	0.0092	-0.0002	-0.0006	0.0002	0.0002	0.0006
PROBES	41 THRU	48	0.0003	0.0010	0.0002	0.0001	0.0003	0.0003
PROBES	49 THRU	56	0.0580	0.0713	0.0112	0.0045	-0.0007	0.0010
PROBES	57 THRU	64	0.0423	0.0159	0.0001	0.0002	0.0003	0.0071
PROBES	65 THRU	72	0.0002	0.0007	0.0003	0.0004	0.0005	-0.0004
PROBES	73 THRU	80	0.0270	0.0001	0.0003	-0.0001	0.0102	0.0349
PROBES	81 THRU	88	0.0083	-0.0003	0.0006	0.0007	0.0027	0.0000
PROBES	89 THRU	96	0.0007	0.0005	0.0006	-0.0001	0.0027	0.0008

AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED = 0.0032 G-SALT/LBM-WATER, SALT MISSED = 0.0017 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0840	0.0155	-0.0004	-0.0001	0.0002	0.0003
PROBES	9 THRU	16	0.0013	0.0000	0.0006	0.0003	0.0004	0.0003
PROBES	17 THRU	24	0.0603	0.0003	0.0003	0.0004	0.0021	0.0007
PROBES	25 THRU	32	0.0633	0.0358	0.0057	0.0002	0.0008	0.0018
PROBES	33 THRU	40	0.0079	-0.0002	0.0004	-0.0000	0.0002	-0.0001
PROBES	41 THRU	48	0.0003	0.0006	0.0002	0.0001	0.0002	0.0003
PROBES	49 THRU	56	0.0462	0.0737	0.0135	0.0048	0.0004	0.0002
PROBES	57 THRU	64	0.0259	0.0130	0.0001	0.0003	0.0007	0.0043
PROBES	65 THRU	72	0.0003	-0.0001	0.0003	0.0003	0.0005	-0.0005
PROBES	73 THRU	80	0.0139	0.0002	0.0004	0.0003	0.0059	0.0235
PROBES	81 THRU	88	0.0011	0.0003	0.0008	0.0008	0.0002	0.0005
PROBES	89 THRU	96	0.0016	0.0006	0.0009	-0.0015	0.0002	0.0004

AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBM-WATER, SALT MISSED = 0.0014 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0884	0.0141	-0.0004	0.0001	0.0002	0.0007
--------	--------	---	--------	--------	---------	--------	--------	--------

AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED = 0.0037 G-SALT/LBM-WATER, SALT MISSED = 0.0012 G-SALT/LBM-WATER									
PROBES 9 THRU 16	0.0164	0.0014	-0.0001	0.0004	0.0004	-0.0001	0.0004	0.0004	0.0004
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0003	0.0004	0.0003	0.0004	0.0004	0.0003
PROBES 25 THRU 32	0.0866	0.0345	0.0379	0.0150	0.0002	0.0019	0.0019	0.0001	0.0266
PROBES 33 THRU 40	0.0226	0.0142	0.0098	0.0014	-0.0001	0.0002	0.0002	0.0004	-0.0004
PROBES 41 THRU 48	0.0010	0.0017	0.0002	0.0001	0.0001	0.0003	0.0003	0.0000	0.0004
PROBES 49 THRU 56	0.0048	0.0048	0.0284	0.0363	0.0082	0.0032	0.0002	0.0006	0.0006
PROBES 57 THRU 64	0.0004	0.0022	0.0019	0.0004	0.0002	0.0003	0.0003	0.0002	0.0010
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0003	0.0003	0.0004	-0.0007	0.0007
PROBES 73 THRU 80	0.0001	0.0002	0.0004	0.0003	0.0004	0.0019	0.0006	0.0006	0.0076
PROBES 81 THRU 88	0.0003	0.0006	0.0019	0.0011	0.0006	0.0003	0.0004	0.0004	0.0010
PROBES 89 THRU 96	0.0013	0.0005	0.0008	0.0009	-0.0002	-0.0015	-0.0003	-0.0001	-0.0001
AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED = 0.0033 G-SALT/LBM-WATER, SALT MISSED = 0.0016 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0680	0.0197	0.0057	-0.0004	-0.0002	0.0003	0.0003	0.0003	0.0005
PROBES 9 THRU 16	0.0160	0.0027	-0.0000	0.0005	0.0002	0.0001	0.0005	0.0005	0.0003
PROBES 17 THRU 24	0.0002	0.0004	0.0004	0.0003	0.0002	0.0007	0.0012	0.0021	0.0021
PROBES 25 THRU 32	0.1017	0.0776	0.0217	0.0100	0.0001	0.0003	0.0001	0.0001	0.0239
PROBES 33 THRU 40	0.0168	0.0051	0.0045	-0.0017	0.0001	0.0003	0.0004	-0.0002	0.0002
PROBES 41 THRU 48	0.0005	0.0010	0.0003	0.0001	0.0000	0.0004	0.0002	0.0003	0.0003
PROBES 49 THRU 56	0.0229	0.0693	0.0241	0.0218	0.0029	0.0018	0.0002	0.0007	0.0007
PROBES 57 THRU 64	0.0112	0.0044	0.0024	0.0004	0.0002	0.0003	0.0014	0.0007	0.0007
PROBES 65 THRU 72	0.0002	-0.0015	0.0007	0.0003	0.0003	0.0002	0.0004	-0.0005	0.0005
PROBES 73 THRU 80	0.0031	0.0001	0.0004	0.0003	0.0004	0.0042	0.0031	0.0197	0.0197
PROBES 81 THRU 88	0.0003	0.0005	0.0009	0.0008	0.0009	0.0003	0.0003	0.0004	0.0004
AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBM-WATER, SALT MISSED = 0.0013 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0518	0.0175	0.0036	-0.0004	0.0003	0.0003	0.0004	0.0004	0.0004
PROBES 9 THRU 16	0.0012	-0.0000	0.0003	0.0000	0.0002	0.0001	0.0005	0.0003	0.0003
PROBES 17 THRU 24	0.0003	0.0001	0.0004	0.0003	0.0004	0.0005	0.0017	0.0018	0.0018
PROBES 25 THRU 32	0.0828	0.0483	0.0119	0.0030	0.0004	-0.0008	0.0003	0.0019	0.0019
PROBES 33 THRU 40	0.0079	-0.0002	-0.0013	-0.0001	0.0000	0.0002	0.0008	0.0002	0.0002
PROBES 41 THRU 48	0.0003	0.0006	0.0005	0.0006	0.0000	0.0008	0.0003	0.0003	0.0003
PROBES 49 THRU 56	0.0526	0.0778	0.0270	0.0061	0.0039	-0.0007	0.0006	0.0003	0.0003
PROBES 57 THRU 64	0.0327	0.0092	0.0069	0.0003	0.0002	0.0003	0.0007	0.0014	0.0014
PROBES 65 THRU 72	0.0002	-0.0015	0.0007	0.0003	0.0002	0.0003	0.0005	-0.0001	0.0001
PROBES 73 THRU 80	0.0125	0.0004	0.0004	0.0003	0.0002	0.0067	0.0118	0.0252	0.0252
PROBES 81 THRU 88	0.0014	0.0004	0.0007	0.0012	0.0006	0.0003	0.0003	0.0003	0.0003
AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED = 0.0035 G-SALT/LBM-WATER, SALT MISSED = 0.0014 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0429	0.0163	0.0027	-0.0003	0.0003	0.0003	0.0004	0.0004	0.0004
PROBES 9 THRU 16	0.0009	0.0000	0.0004	0.0007	0.0004	-0.0000	0.0003	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0003	0.0004	0.0007	0.0008	0.0014	0.0014
PROBES 25 THRU 32	0.0833	0.0539	0.0141	0.0064	0.0003	0.0010	0.0002	0.0009	0.0009
PROBES 33 THRU 40	0.0085	-0.0002	-0.0005	0.0004	-0.0000	0.0002	0.0004	0.0004	0.0004
PROBES 41 THRU 48	0.0003	0.0006	0.0004	0.0003	0.0000	0.0004	0.0003	0.0003	0.0003
PROBES 49 THRU 56	0.0580	0.0904	0.0322	0.0101	0.0011	-0.0001	0.0002	0.0002	0.0002
PROBES 57 THRU 64	0.0330	0.0104	0.0079	0.0004	0.0002	0.0003	0.0003	0.0014	0.0014
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0003	0.0003	0.0005	-0.0001	0.0001
PROBES 73 THRU 80	0.0173	0.0002	0.0004	0.0003	0.0001	0.0008	0.0142	0.0280	0.0280
AXIAL POSITION # 21, AXIAL LOCATION = 9.50 INCHES, SALT OBSERVED = 0.0034 G-SALT/LBM-WATER, SALT MISSED = 0.0013 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0459	0.0184	0.0055	-0.0004	-0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 9 THRU 16	0.0004	0.0000	0.0004	0.0003	0.0003	0.0001	0.0004	0.0003	0.0003
PROBES 17 THRU 24	0.0003	0.0002	0.0003	0.0003	0.0005	0.0006	0.0012	0.0021	0.0021
PROBES 25 THRU 32	0.0629	0.0361	0.0119	0.0039	0.0003	0.0010	0.0002	0.0008	0.0008
PROBES 33 THRU 40	0.0085	-0.0002	-0.0005	0.0009	0.0000	0.0002	0.0004	0.0004	0.0004

AXIAL POSITION # 21, AXIAL LOCATION = 9.50 INCHES, SALT OBSERVED = 0.0031 G-SALT/LBN-WATER, SALT MISSED = 0.0018 G-SALT/LBN-WATER

PROBES 41 THRU 48	0.0003	0.0003	0.0000	0.0004	0.0003	0.0002	0.0003	0.0003
PROBES 49 THRU 56	0.0003	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0003
PROBES 57 THRU 64	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 73 THRU 80	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 81 THRU 88	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003

AXIAL POSITION # 22, AXIAL LOCATION = 9.00 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBN-WATER, SALT MISSED = 0.0021 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0137	0.0011	0.0003	0.0002	0.0003	0.0002	0.0003	0.0004
PROBES 9 THRU 16	0.0006	0.0006	0.0003	0.0001	0.0003	0.0001	0.0003	0.0003
PROBES 17 THRU 24	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 25 THRU 32	0.0411	0.0112	0.0027	0.0007	0.0007	0.0008	0.0003	0.0006
PROBES 33 THRU 40	0.0052	0.0009	0.0006	0.0002	0.0002	0.0002	0.0002	0.0002
PROBES 41 THRU 48	0.0003	0.0006	0.0006	0.0008	0.0008	0.0004	0.0004	0.0003
PROBES 49 THRU 56	0.0401	0.0278	0.0031	0.0011	0.0011	0.0012	0.0005	0.0005
PROBES 57 THRU 64	0.0115	0.0052	0.0004	0.0003	0.0003	0.0003	0.0007	0.0007
PROBES 65 THRU 72	0.0002	0.0010	0.0003	0.0003	0.0003	0.0003	0.0007	0.0004
PROBES 73 THRU 80	0.0020	0.0001	0.0004	0.0004	0.0003	0.0031	0.0024	0.0139
PROBES 81 THRU 88	0.0003	0.0005	0.0010	0.0012	0.0008	0.0003	0.0003	0.0007

AXIAL POSITION # 23, AXIAL LOCATION = 8.50 INCHES, SALT OBSERVED = 0.0030 G-SALT/LBN-WATER, SALT MISSED = 0.0019 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0121	0.0011	0.0003	0.0002	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0025	0.0007	0.0003	0.0001	0.0003	0.0001	0.0005	0.0003
PROBES 17 THRU 24	0.0003	0.0004	0.0003	0.0001	0.0003	0.0001	0.0002	0.0018
PROBES 25 THRU 32	0.1262	0.0928	0.0091	0.0001	0.0001	0.0001	0.0002	0.0020
PROBES 33 THRU 40	0.0129	0.0002	0.0003	0.0006	0.0001	0.0002	0.0004	0.0002
PROBES 41 THRU 48	0.0003	0.0006	0.0005	0.0003	0.0001	0.0004	0.0002	0.0003
PROBES 49 THRU 56	0.0034	0.0630	0.0146	0.0220	0.0022	0.0007	0.0003	0.0003
PROBES 57 THRU 64	0.0005	0.0009	0.0005	0.0003	0.0003	0.0003	0.0007	0.0001
PROBES 65 THRU 72	0.0003	0.0019	0.0006	0.0003	0.0003	0.0003	0.0006	0.0004
PROBES 73 THRU 80	0.0000	0.0001	0.0004	0.0004	0.0005	0.0010	0.0004	0.0054
PROBES 81 THRU 88	0.0003	0.0008	0.0008	0.0009	0.0014	0.0003	0.0004	0.0010

AXIAL POSITION # 24, AXIAL LOCATION = 8.00 INCHES, SALT OBSERVED = 0.0034 G-SALT/LBN-WATER, SALT MISSED = 0.0015 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0368	0.0093	0.0004	0.0002	0.0001	0.0002	0.0003	0.0003
PROBES 9 THRU 16	0.0004	0.0001	0.0008	0.0001	0.0002	0.0001	0.0005	0.0003
PROBES 17 THRU 24	0.0002	0.0002	0.0004	0.0002	0.0005	0.0006	0.0008	0.0014
PROBES 25 THRU 32	0.0871	0.1082	0.0389	0.0147	0.0001	0.0023	0.0002	0.0016
PROBES 33 THRU 40	0.0148	0.0003	0.0003	0.0012	0.0000	0.0002	0.0005	0.0006
PROBES 41 THRU 48	0.0003	0.0003	0.0003	0.0003	0.0001	0.0004	0.0001	0.0006
PROBES 49 THRU 56	0.0007	0.0622	0.0512	0.0626	0.0082	0.0018	0.0002	0.0005
PROBES 57 THRU 64	0.0002	0.0007	0.0030	0.0004	0.0002	0.0021	0.0021	0.0001
PROBES 65 THRU 72	0.0003	0.0019	0.0005	0.0003	0.0003	0.0003	0.0005	0.0007

PROBES	73 THRU	80	0.0001	0.0001	0.0004	0.0004	0.0005	-0.0001	0.0003	0.0007
PROBES	81 THRU	88	0.0005	0.0009	0.0008	0.0008	0.0009	0.0003	0.0004	0.0010
PROBES	89 THRU	96	0.0014	0.0003	0.0006	0.0007	-0.0010	-0.0006	0.0032	-0.0001
AXIAL POSITION # 25, AXIAL LOCATION = 7.50 INCHES, SALT OBSERVED = 0.0032 G-SALT/LBM-WATER, SALT MISSED = 0.0017 G-SALT/LBM-WATER										
PROBES	1 THRU	8	0.0668	0.0119	0.0008	0.0001	0.0003	0.0002	0.0003	0.0005
PROBES	9 THRU	16	0.0021	-0.0000	0.0004	0.0004	0.0004	-0.0001	0.0004	0.0002
PROBES	17 THRU	24	0.0002	0.0002	0.0004	0.0002	0.0005	0.0006	0.0012	0.0002
PROBES	25 THRU	32	0.1231	0.1232	0.0231	0.0092	0.0001	0.0026	0.0001	0.0050
PROBES	33 THRU	40	0.0158	0.0004	0.0010	0.0009	-0.0001	0.0003	0.0004	0.0001
PROBES	41 THRU	48	0.0003	0.0003	0.0003	0.0001	0.0000	0.0003	0.0000	0.0004
PROBES	49 THRU	56	0.0302	0.0580	0.0074	0.0279	0.0007	-0.0001	0.0002	0.0006
PROBES	57 THRU	64	-0.0005	0.0003	0.0003	0.0004	0.0002	0.0003	0.0014	-0.0001
PROBES	65 THRU	72	0.0003	-0.0015	0.0007	0.0003	0.0003	0.0003	0.0005	-0.0003
PROBES	73 THRU	80	0.0001	0.0001	0.0004	0.0004	0.0003	0.0010	0.0004	0.0014
PROBES	81 THRU	88	0.0005	0.0009	0.0008	0.0008	0.0009	0.0003	0.0004	0.0010
AXIAL POSITION # 26, AXIAL LOCATION = 6.50 INCHES, SALT OBSERVED = 0.0027 G-SALT/LBM-WATER, SALT MISSED = 0.0022 G-SALT/LBM-WATER										
PROBES	1 THRU	8	0.0159	0.0148	0.0018	-0.0000	-0.0000	0.0002	0.0005	0.0007
PROBES	9 THRU	16	0.0003	0.0004	0.0009	0.0002	0.0002	0.0001	0.0005	0.0003
PROBES	17 THRU	24	0.0002	0.0001	0.0003	0.0003	0.0004	0.0006	0.0008	0.0014
PROBES	25 THRU	32	0.0389	0.0095	0.0050	0.0007	0.0066	0.0003	0.0002	0.0001
PROBES	33 THRU	40	-0.0001	-0.0000	-0.0001	0.0004	0.0001	0.0002	0.0008	0.0002
PROBES	41 THRU	48	0.0003	-0.0009	0.0004	0.0006	0.0000	0.0008	0.0005	0.0003
PROBES	49 THRU	56	0.1002	0.0770	0.0146	0.0005	-0.0010	-0.0007	0.0003	0.0003
PROBES	57 THRU	64	0.0397	-0.0010	0.0020	0.0004	0.0003	0.0003	-0.0009	-0.0001
PROBES	65 THRU	72	0.0003	-0.0010	0.0004	0.0003	0.0002	0.0003	0.0005	0.0002
PROBES	73 THRU	80	0.0142	0.0001	0.0004	0.0004	0.0002	0.0061	0.0163	0.0487
PROBES	81 THRU	88	0.0009	0.0005	0.0010	0.0008	0.0009	0.0003	0.0003	0.0004
AXIAL POSITION # 27, AXIAL LOCATION = 6.00 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBM-WATER, SALT MISSED = 0.0021 G-SALT/LBM-WATER										
PROBES	1 THRU	8	0.0235	0.0144	0.0009	-0.0000	0.0001	0.0002	0.0003	0.0005
PROBES	9 THRU	16	0.0003	0.0004	0.0004	0.0006	0.0002	0.0001	0.0003	0.0003
PROBES	17 THRU	24	0.0002	0.0001	0.0003	0.0003	0.0004	0.0006	0.0008	0.0014
PROBES	25 THRU	32	0.0833	0.0264	0.0066	-0.0013	0.0002	0.0010	0.0002	0.0001
PROBES	33 THRU	40	-0.0001	0.0001	0.0003	-0.0001	0.0001	0.0002	0.0002	0.0002
PROBES	41 THRU	48	0.0003	0.0006	0.0005	0.0003	0.0000	0.0004	0.0003	0.0003
PROBES	49 THRU	56	0.0662	0.0927	0.0161	0.0015	0.0003	-0.0018	0.0004	0.0003
PROBES	57 THRU	64	0.0259	0.0003	0.0015	0.0004	0.0002	0.0003	0.0003	0.0007
PROBES	65 THRU	72	0.0003	-0.0015	0.0007	0.0003	0.0002	0.0003	0.0004	-0.0003
PROBES	73 THRU	80	0.0087	0.0001	0.0003	0.0003	0.0001	0.0042	0.0088	0.0314
PROBES	81 THRU	88	0.0005	0.0005	0.0010	0.0008	0.0007	0.0003	0.0003	0.0009
AXIAL POSITION # 28, AXIAL LOCATION = 5.75 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBM-WATER, SALT MISSED = 0.0021 G-SALT/LBM-WATER										
PROBES	1 THRU	8	0.0311	0.0200	0.0022	-0.0001	-0.0001	0.0003	0.0003	0.0007
PROBES	9 THRU	16	0.0002	0.0003	0.0002	0.0003	0.0003	0.0001	0.0004	0.0004
PROBES	17 THRU	24	0.0002	0.0001	0.0003	0.0003	0.0005	0.0006	0.0017	0.0021
PROBES	25 THRU	32	0.0603	0.0137	0.0037	0.0003	0.0002	-0.0005	0.0002	0.0001
PROBES	33 THRU	40	0.0003	0.0000	0.0003	-0.0001	0.0002	0.0002	0.0008	0.0004
PROBES	41 THRU	48	0.0003	0.0003	0.0004	0.0003	0.0000	0.0004	0.0003	0.0003
PROBES	49 THRU	56	0.0744	0.0913	0.0139	0.0009	-0.0001	0.0002	0.0002	0.0006
PROBES	57 THRU	64	0.0147	0.0011	0.0016	0.0005	0.0003	0.0003	0.0007	0.0003
PROBES	65 THRU	72	0.0003	-0.0015	0.0007	0.0003	0.0004	0.0003	0.0005	0.0001
PROBES	73 THRU	80	0.0090	0.0001	0.0004	0.0003	0.0003	0.0059	0.0194	0.0556
PROBES	81 THRU	88	0.0008	0.0005	0.0011	0.0009	0.0011	0.0003	0.0003	0.0007

AXIAL POSITION # 29, AXIAL LOCATION = 5.50 INCHES, SALT OBSERVED = 0.0023 G-SALT/LBM-WATER, SALT MISSED = 0.0026 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0065	0.0046	-0.0000	0.0005	0.0004	0.0003	0.0003	0.0005
PROBES 9 THRU 16	0.0003	0.0002	C.0004	0.0006	0.0002	0.0001	0.0005	0.0003
PROBES 17 THRU 24	0.0003	0.0004	0.0004	0.0003	0.0004	0.0004	0.0017	0.0021
PROBES 25 THRU 32	0.0609	0.0115	0.0053	0.0017	0.0004	-0.0012	0.0302	0.0002
PROBES 33 THRU 40	-0.0009	-0.0000	0.0033	-0.0006	0.0004	0.0002	0.0004	0.0004
PROBES 41 THRU 48	C.0003	0.0003	C.0004	0.0001	0.0000	0.0003	0.0003	0.0003
PROBES 49 THRU 56	C.0704	0.0899	0.0246	0.0006	-0.0001	-0.0012	0.0001	0.0003
PROBES 57 THRU 64	0.0274	0.0022	0.0025	0.0005	0.0003	0.0003	0.0007	-0.0005
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0004	0.0003	0.0005	-0.0001
PROBES 73 THRU 80	0.0090	0.0002	0.0004	0.0004	0.0003	0.0026	0.0019	0.0130
PROBES 81 THRU 88	C.0007	0.0006	0.0019	0.0011	0.0006	0.0003	0.0003	0.0006

AXIAL POSITION # 30, AXIAL LOCATION = 5.25 INCHES, SALT OBSERVED = 0.0021 G-SALT/LBM-WATER, SALT MISSED = 0.0028 G-SALT/LBM-WATER

PROBES 1 THRU 8	C.0098	0.0013	C.0000	0.0005	0.0001	0.0002	0.0003	0.0005
PROBES 9 THRU 16	C.0002	0.0002	0.0004	0.0006	0.0002	0.0001	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0004	C.0002	0.0005	0.0006	0.0017	-0.0001
PROBES 25 THRU 32	0.1017	0.0372	0.0092	-0.0001	0.0007	-0.0005	0.0002	0.0001
PROBES 33 THRU 40	-0.0001	0.0001	-0.0017	-0.0001	0.0000	0.0002	0.0005	0.0002
PROBES 41 THRU 48	0.0003	-0.0005	0.0003	0.0003	0.0000	0.0004	0.0003	0.0003
PROBES 49 THRU 56	0.0137	0.1048	0.0181	0.0021	0.0011	-0.0001	0.0002	0.0006
PROBES 57 THRU 64	0.0008	0.0018	0.0029	0.0004	0.0002	0.0003	0.0003	-0.0001
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0003	0.0003	0.0005	-0.0004
PROBES 73 THRU 80	0.0000	0.0002	0.0004	0.0003	0.0004	0.0010	0.0004	0.0009
PROBES 81 THRU 88	0.0004	0.0006	0.0017	0.0009	0.0010	0.0003	0.0003	0.0009

AXIAL POSITION # 31, AXIAL LOCATION = 5.00 INCHES, SALT OBSERVED = 0.0018 G-SALT/LBM-WATER, SALT MISSED = 0.0031 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0145	0.0023	0.0002	-0.0000	0.0004	0.0002	0.0003	0.0007
PROBES 9 THRU 16	0.0002	0.0004	0.0003	0.0003	0.0002	0.0001	0.0004	0.0004
PROBES 17 THRU 24	0.0002	0.0003	0.0003	0.0002	0.0004	0.0006	0.0021	0.0003
PROBES 25 THRU 32	0.0819	0.0159	0.0053	0.0017	0.0004	-0.0012	0.0032	0.0001
PROBES 33 THRU 40	-0.0001	0.0001	0.0006	0.0009	0.0001	0.0002	0.0008	0.0003
PROBES 41 THRU 48	0.0033	0.0003	0.0004	0.0001	0.0000	0.0004	0.0002	0.0003
PROBES 49 THRU 56	0.0001	0.1059	0.0196	0.0008	0.0022	-0.0001	0.0002	0.0005
PROBES 57 THRU 64	-0.0001	0.0011	0.0027	0.0003	0.0002	0.0003	0.0007	0.0003
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0003	0.0002	0.0005	-0.0001
PROBES 73 THRU 80	0.0002	0.0001	0.0003	0.0003	0.0002	-0.0001	0.0004	0.0009
PROBES 81 THRU 88	0.0004	0.0006	0.0013	0.0011	0.0005	0.0003	0.0004	0.0011

AXIAL POSITION # 32, AXIAL LOCATION = 4.75 INCHES, SALT OBSERVED = 0.0017 G-SALT/LBM-WATER, SALT MISSED = 0.0032 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0192	0.0026	0.0000	0.0003	0.0001	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0002	0.0004	0.0004	0.0004	0.0004	-0.0001	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0003	0.0002	0.0005	0.0006	0.0017	0.0021
PROBES 25 THRU 32	0.1061	0.0330	0.0068	0.0010	0.0002	0.0010	0.0003	0.0001
PROBES 33 THRU 40	-0.0001	-0.0000	0.0003	-0.0001	-0.0000	0.0002	0.0008	0.0004
PROBES 41 THRU 48	0.0003	0.0006	0.0005	0.0004	0.0000	0.0007	0.0001	0.0003
PROBES 49 THRU 56	-0.0007	0.0642	0.0005	0.0004	0.0007	-0.0001	0.0002	0.0006
PROBES 57 THRU 64	0.0002	-0.0003	0.0002	0.0005	0.0003	0.0003	0.0007	-0.0005
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0003	0.0004	0.0003	0.0005	-0.0001
PROBES 73 THRU 80	0.0004	0.0002	0.0004	0.0004	0.0003	0.0010	0.0004	0.0013
PROBES 81 THRU 88	0.0004	0.0006	0.0013	0.0008	0.0007	0.0003	0.0005	0.0008

AXIAL POSITION # 33, AXIAL LOCATION = 4.50 INCHES, SALT OBSERVED = 0.0017 G-SALT/LBM-WATER, SALT MISSED = 0.0032 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0222	0.0020	0.0002	0.0004	0.0003	0.0003	0.0005	0.0007
PROBES 9 THRU 16	0.0002	0.0003	0.0003	0.0003	0.0004	-0.0001	0.0004	0.0003

PROBES 17 THRU 24	0.0002	0.0003	0.0003	0.0002	0.0005	0.0006	0.0017	-0.0005
PROBES 25 THRU 32	0.0959	0.0364	0.0079	0.0007	0.0007	-0.0008	0.0002	0.0001
PROBES 33 THRU 40	0.0018	-0.0010	0.0010	-0.0012	-0.0003	0.0003	0.0006	0.0002
PROBES 41 THRU 48	0.0003	0.0013	0.0004	0.0001	0.0001	0.0004	0.0002	0.0003
PROBES 49 THRU 56	-0.0007	0.0665	0.0010	0.0033	0.0007	0.0004	0.0002	0.0002
PROBES 57 THRU 64	0.0002	-0.0005	0.0002	0.0006	0.0003	0.0003	0.0007	0.0003
PROBES 65 THRU 72	0.0003	-0.0015	0.0007	0.0004	0.0004	0.0003	0.0005	-0.0001
PROBES 73 THRU 80	0.0003	0.0002	0.0004	0.0004	0.0003	0.0003	0.0006	0.0009
PROBES 81 THRU 88	0.0005	0.0009	0.0016	0.0008	0.0009	0.0003	0.0004	0.0009

AXIAL POSITION # 34, AXIAL LOCATION = 4.25 INCHES, SALT OBSERVED = 0.0024 G-SALT/LBM-WATER, SALT MISSED = 0.0025 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0207	0.0010	0.0003	0.0005	0.0002	0.0002	0.0004	0.0004
PROBES 9 THRU 16	0.0031	0.0003	0.0005	0.0001	0.0004	-0.0001	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0002	0.0004	0.0005	0.0004	-0.0001
PROBES 25 THRU 32	0.1469	0.1110	0.0157	0.0004	0.0004	0.0013	0.0001	0.0001
PROBES 33 THRU 40	0.0025	-0.0017	-0.0017	-0.0006	0.0000	0.0002	0.0004	0.0004
PROBES 41 THRU 48	0.0003	0.0010	0.0003	0.0002	0.0000	0.0003	0.0000	0.0004
PROBES 49 THRU 56	0.0000	0.0372	0.0022	0.0150	-0.0001	-0.0012	0.0001	0.0003
PROBES 57 THRU 64	0.0006	-0.0022	0.0002	0.0004	0.0002	0.0003	0.0014	-0.0001
PROBES 65 THRU 72	0.0003	-0.0019	0.0006	0.0003	0.0003	0.0003	0.0005	-0.0004
PROBES 73 THRU 80	0.0002	0.0002	0.0005	0.0004	0.0007	-0.0005	0.0002	0.0002
PROBES 81 THRU 88	0.0005	0.0008	0.0007	0.0014	0.0007	0.0003	0.0004	0.0011

AXIAL POSITION # 35, AXIAL LOCATION = 4.00 INCHES, SALT OBSERVED = 0.0023 G-SALT/LBM-WATER, SALT MISSED = 0.0026 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0109	0.0013	0.0001	0.0002	0.0003	0.0002	0.0003	0.0004
PROBES 9 THRU 16	0.0002	0.0004	0.0009	0.0003	0.0004	-0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0002	0.0003	0.0003	0.0005	0.0006	0.0008	0.0014
PROBES 25 THRU 32	0.1170	0.1068	0.0151	0.0054	0.0004	0.0026	0.0002	0.0002
PROBES 33 THRU 40	0.0021	0.0001	-0.0013	-0.0001	-0.0001	0.0002	0.0008	0.0004
PROBES 41 THRU 48	0.0003	0.0003	0.0003	0.0001	0.0003	0.0007	-0.0001	0.0006
PROBES 49 THRU 56	-0.0001	0.0310	0.0094	0.0365	0.0015	-0.0018	0.0005	0.0004
PROBES 57 THRU 64	0.0006	-0.0022	0.0002	0.0004	0.0002	0.0003	0.0018	-0.0009
PROBES 65 THRU 72	0.0003	-0.0019	0.0006	0.0003	0.0003	0.0003	0.0005	-0.0007
PROBES 73 THRU 80	0.0002	0.0002	0.0005	0.0004	0.0007	-0.0005	0.0006	0.0004
PROBES 81 THRU 88	0.0005	0.0008	0.0008	0.0008	0.0009	0.0003	0.0004	0.0012

AXIAL POSITION # 36, AXIAL LOCATION = 3.75 INCHES, SALT OBSERVED = 0.0020 G-SALT/LBM-WATER, SALT MISSED = 0.0029 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0222	0.0017	0.0000	0.0003	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0001	0.0003	0.0002	0.0003	0.0002	0.0001	0.0005	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0004	0.0004	0.0006	0.0008	0.0014
PROBES 25 THRU 32	0.1479	0.0676	0.0095	0.0010	0.0002	0.0023	0.0001	0.0001
PROBES 33 THRU 40	0.0018	-0.0001	0.0003	-0.0006	0.0001	0.0002	0.0007	0.0004
PROBES 41 THRU 48	0.0003	0.0006	0.0003	0.0002	0.0003	0.0003	0.0000	0.0004
PROBES 49 THRU 56	-0.0005	0.0385	0.0005	0.0016	0.0003	-0.0001	0.0002	0.0002
PROBES 57 THRU 64	0.0006	-0.0022	0.0002	0.0004	0.0003	0.0003	-0.0001	-0.0001
PROBES 65 THRU 72	0.0003	-0.0010	0.0005	0.0003	0.0004	0.0003	0.0007	-0.0005
PROBES 73 THRU 80	0.0002	0.0002	0.0005	0.0004	0.0007	-0.0005	0.0006	0.0002

AXIAL POSITION # 37, AXIAL LOCATION = 3.50 INCHES, SALT OBSERVED = 0.0017 G-SALT/LBM-WATER, SALT MISSED = 0.0032 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0288	0.0006	0.0003	0.0005	0.0002	0.0002	0.0004	0.0004
PROBES 9 THRU 16	0.0001	0.0003	0.0003	0.0003	0.0004	-0.0002	0.0004	0.0002
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0005	0.0007	0.0008	0.0014
PROBES 25 THRU 32	0.1304	0.0477	0.0055	0.0014	0.0003	0.0010	0.0002	0.0002
PROBES 33 THRU 40	0.0007	0.0001	0.0003	-0.0006	0.0001	0.0002	0.0007	0.0004
PROBES 41 THRU 48	0.0003	0.0006	0.0005	0.0004	0.0004	0.0004	0.0003	0.0003
PROBES 49 THRU 56	-0.0002	0.0297	0.0004	0.0001	0.0003	-0.0007	0.0004	0.0003

PROBES 57 THRU 64 0.0036 -0.0022 0.0032 0.0005 0.0003 0.0003 -0.0001 -0.0001
 PROBES 65 THRU 72 0.0003 -0.0010 0.0005 0.0003 0.0004 0.0003 -0.0007 -0.0005
 PROBES 73 THRU 80 0.0004 0.0002 0.0005 0.0004 0.0007 -0.0005 0.0036 0.0032
 PROBES 81 THRU 88 0.0006 0.0008 0.0008 0.0008 0.0009 0.0003 0.0004 0.0011

AXIAL POSITION # 38, AXIAL LOCATION = 3.25 INCHES, SALT OBSERVED = 0.0014 G-SALT/LBM-WATER, SALT MISSED = 0.0035 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0442 0.0041 0.0003 0.0002 0.0001 0.0002 0.0002 0.0004
 PROBES 9 THRU 16 0.0001 0.0002 0.0003 0.0001 0.0003 0.0001 0.0005 0.0003
 PROBES 17 THRU 24 0.0002 0.0001 0.0003 0.0003 0.0004 0.0007 0.0007 0.0014
 PROBES 25 THRU 32 0.1080 0.0028 0.0023 0.0003 0.0004 0.0006 0.0002 0.0032
 PROBES 33 THRU 40 -0.0001 0.0002 -0.0013 0.0003 0.0003 0.0002 0.0005 0.0002
 PROBES 41 THRU 48 0.0003 -0.0001 0.0005 0.0003 0.0003 0.0005 0.0005 0.0003
 PROBES 49 THRU 56 0.0001 0.0372 0.0003 0.0001 0.0307 -0.0012 0.0001 0.0035
 PROBES 57 THRU 64 0.0008 0.0018 0.0002 0.0004 0.0003 0.0003 0.0003 -0.0001
 PROBES 65 THRU 72 0.0003 -0.0010 0.0005 0.0003 0.0003 0.0005 -0.0001 0.0003
 PROBES 73 THRU 80 0.0004 0.0002 0.0005 0.0004 0.0007 -0.0005 0.0006 0.0003
 PROBES 81 THRU 88 0.0006 0.0010 0.0009 0.0011 0.0006 0.0003 0.0004 0.0012
 PROBES 89 THRU 96 0.0014 0.0004 0.0008 0.0010 -0.0006 0.0008 0.0002 0.0004

AXIAL POSITION # 39, AXIAL LOCATION = 3.00 INCHES, SALT OBSERVED = 0.0011 G-SALT/LBM-WATER, SALT MISSED = 0.0038 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0245 0.0006 0.0003 0.0007 0.0001 0.0002 0.0002 0.0004
 PROBES 9 THRU 16 0.0001 0.0002 0.0004 0.0006 0.0003 0.0001 0.0005 0.0003
 PROBES 17 THRU 24 0.0002 0.0002 0.0004 0.0002 0.0004 0.0007 0.0008 0.0014
 PROBES 25 THRU 32 0.0567 -0.0002 0.0032 0.0007 0.0007 0.0013 0.0002 0.0001
 PROBES 33 THRU 40 -0.0005 0.0001 -0.0005 0.0006 -0.0003 0.0002 0.0004 0.0005
 PROBES 41 THRU 48 0.0003 -0.0001 0.0004 0.0003 0.0000 0.0005 0.0003 0.0003
 PROBES 49 THRU 56 -0.0007 0.0665 0.0003 0.0001 0.0015 -0.0018 0.0001 0.0005
 PROBES 57 THRU 64 0.0008 -0.0018 0.0001 0.0004 0.0003 0.0003 -0.0005 -0.0009
 PROBES 65 THRU 72 0.0004 -0.0019 0.0006 0.0004 0.0004 0.0003 0.0009 -0.0000
 PROBES 73 THRU 80 0.0004 0.0002 0.0005 0.0004 0.0007 -0.0005 0.0006 0.0002
 PROBES 81 THRU 88 0.0005 0.0008 0.0008 0.0008 0.0009 0.0003 0.0004 0.0011

AXIAL POSITION # 40, AXIAL LOCATION = 2.75 INCHES, SALT OBSERVED = 0.0005 G-SALT/LBM-WATER, SALT MISSED = 0.0044 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0004 0.0033 0.0001 0.0004 0.0001 0.0002 0.0003 0.0004
 PROBES 9 THRU 16 0.0003 0.0004 0.0006 0.0003 0.0004 -0.0000 0.0003 0.0003
 PROBES 17 THRU 24 0.0002 0.0003 0.0003 0.0002 0.0004 0.0006 0.0008 0.0014
 PROBES 25 THRU 32 0.0003 0.0002 0.0020 0.0005 0.0004 0.0003 0.0003 0.0001
 PROBES 33 THRU 40 -0.0018 0.0000 0.0003 -0.0006 0.0007 0.0002 0.0004 0.0004
 PROBES 41 THRU 48 0.0003 -0.0001 0.0004 0.0036 0.0000 0.0008 0.0006 0.0003
 PROBES 49 THRU 56 0.0052 0.0330 0.0003 0.0003 -0.0001 -0.0018 0.0001 0.0005
 PROBES 57 THRU 64 0.0003 -0.0013 0.0002 0.0006 0.0003 0.0003 -0.0005 -0.0001
 PROBES 65 THRU 72 0.0003 -0.0010 0.0005 0.0004 0.0005 0.0003 0.0007 0.0004
 PROBES 73 THRU 80 0.0004 0.0002 0.0005 0.0004 0.0007 0.0003 0.0005 0.0092
 PROBES 81 THRU 88 0.0004 0.0008 0.0008 0.0008 0.0009 0.0003 0.0004 0.0011

AXIAL POSITION # 41, AXIAL LOCATION = 2.50 INCHES, SALT OBSERVED = 0.0006 G-SALT/LBM-WATER, SALT MISSED = 0.0043 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0004 0.0001 -0.0001 0.0006 0.0001 0.0002 0.0003 0.0005
 PROBES 9 THRU 16 0.0004 0.0004 0.0006 0.0003 0.0005 0.0001 0.0005 0.0003
 PROBES 17 THRU 24 0.0002 0.0003 0.0003 0.0002 0.0004 0.0005 0.0018 0.0018
 PROBES 25 THRU 32 0.0003 0.0001 0.0016 -0.0021 0.0004 -0.0001 0.0002 0.0001
 PROBES 33 THRU 40 -0.0013 0.0003 -0.0021 0.0012 0.0005 0.0002 0.0001 0.0003
 PROBES 41 THRU 48 0.0003 -0.0001 0.0004 0.0006 0.0000 0.0005 0.0006 0.0003
 PROBES 49 THRU 56 0.0072 0.0669 0.0004 0.0003 -0.0001 -0.0007 0.0005 0.0005
 PROBES 57 THRU 64 0.0005 -0.0022 0.0005 0.0005 0.0003 -0.0009 -0.0009 0.0009
 PROBES 65 THRU 72 0.0004 -0.0019 0.0007 0.0005 0.0004 0.0002 0.0004 -0.0000
 PROBES 73 THRU 80 0.0001 0.0001 0.0005 0.0003 0.0005 0.0010 0.0005 0.0045

PROBES 01 THRU 88	0.0004	0.0008	0.0010	0.0008	0.0009	0.0003	0.0005	0.0006
-------------------	--------	--------	--------	--------	--------	--------	--------	--------

AXIAL POSITION # 42, AXIAL LOCATION = 2.25 INCHES, SALT OBSERVED = 0.0006 G-SALT/LBM-WATER, SALT MISSED = 0.0043 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0004	0.0017	-0.0000	0.0001	0.0003	0.0002	0.0003	0.0005
PROBES	9 THRU	16	0.0004	0.0004	0.0006	0.0003	0.0005	0.0002	0.0004	0.0003
PROBES	17 THRU	24	0.0032	0.0003	0.0003	0.0002	0.0005	0.0005	0.0004	0.0003
PROBES	25 THRU	32	0.0033	0.0001	0.0020	-0.0005	0.0004	-0.0016	0.0003	0.0001
PROBES	33 THRU	40	-0.0013	0.0001	-0.0001	-0.0001	0.0002	0.0002	0.0005	0.0001
PROBES	41 THRU	48	0.0003	-0.0001	0.0004	0.0006	0.0000	0.0018	0.0006	0.0003
PROBES	49 THRU	56	0.0031	0.0057	0.0004	0.0002	0.0007	-0.0005	0.0002	0.0004
PROBES	57 THRU	64	0.0002	-0.0001	0.0001	0.0005	0.0003	0.0003	-0.0009	-0.0014
PROBES	65 THRU	72	0.0034	-0.0019	0.0037	0.0004	0.0003	0.0003	0.0008	0.0002
PROBES	73 THRU	80	0.0001	0.0002	0.0006	0.0004	0.0006	0.0003	0.0004	0.0012
PROBES	81 THRU	88	0.0005	0.0010	0.0011	0.0011	0.0006	0.0003	0.0004	0.0010

AXIAL POSITION # 43, AXIAL LOCATION = 2.00 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0045 G-SALT/LBM-WATER

[illegible]

AXIAL POSITION # 44, AXIAL LOCATION = 1.75 INCHES, SALT OBSERVED =0.0004 G-SALT/LBM-WATER, SALT MISSED =0.0045 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0041	0.0041	0.0001	0.0002	0.0003	0.0002	0.0002	0.0003	0.0003	0.0004
PROBES	9 THRU	16	0.004	0.004	0.0006	0.0003	0.0005	-0.0001	0.0001	0.0004	0.0003	0.0003
PROBES	17 THRU	24	0.002	0.003	0.0004	0.0002	0.0005	0.0005	-0.0001	0.0004	0.0004	0.0003
PROBES	25 THRU	32	0.004	0.003	-0.0001	-0.0013	0.0004	0.0005	-0.0001	0.0004	0.0012	0.0010
PROBES	33 THRU	40	-0.0018	0.001	-0.0026	-0.0012	0.0006	0.0005	0.0002	0.0004	0.0004	0.0002
PROBES	41 THRU	48	0.003	-0.0001	0.0005	0.0007	0.0000	0.0005	0.0002	0.0004	0.0005	0.0001
PROBES	49 THRU	56	0.0048	0.004	0.0003	0.0003	-0.0001	0.0005	-0.0007	0.0004	0.0005	0.0003
PROBES	57 THRU	64	0.005	-0.0022	0.0002	0.0004	0.0003	0.0003	0.0003	0.0003	-0.0009	0.0005
PROBES	65 THRU	72	0.004	-0.0019	0.0007	0.0005	0.0003	0.0006	0.0003	0.0006	-0.0009	0.0005
PROBES	73 THRU	80	0.001	0.001	0.0005	0.0005	0.0005	0.0019	0.0019	0.0005	0.0005	0.0012
PROBES	81 THRU	88	0.0005	0.0010	0.0010	0.0011	0.0006	0.0005	0.0003	0.0004	0.0004	0.0010

AXIAL POSITION # 45, AXIAL LOCATION = 1.50 INCHES, SALT OBSERVED = 0.0004 G-SALT/LBM-WATER, SALT MISSED = 0.0045 G-SALT/LBM-WATER

PROBES	1 THRU	8	-0.0001	-0.0001	0.0001	0.0003	0.0002	0.0003	0.0005
PROBES	16	0.0004	0.0004	0.0006	0.0003	0.0005	-0.0001	0.0005	0.0004
PROBES	24	0.0002	0.0001	0.0003	0.0003	0.0004	0.0005	0.0005	0.0018
PROBES	32	0.0004	0.0003	-0.0005	-0.0013	0.0004	-0.0016	0.0003	0.0001
PROBES	40	-0.0013	0.0003	-0.0021	-0.0012	0.0001	0.0002	0.0009	0.0003
PROBES	48	0.0003	-0.0009	0.0005	0.0007	0.0000	0.0004	0.0305	0.0003
PROBES	56	-0.0008	0.0008	0.0003	0.0002	0.0003	-0.0012	0.0002	0.0004
PROBES	64	0.0006	-0.0018	0.0002	0.0007	0.0004	0.0003	-0.0009	-0.0004
PROBES	72	0.0004	-0.0019	0.0007	0.0004	0.0003	0.0002	0.0005	-0.0000
PROBES	80	0.0001	0.0002	0.0005	0.0003	0.0006	-0.0001	0.0005	0.0001
PROBES	88	0.0005	0.0009	0.0009	0.0009	0.0012	0.0003	0.0004	0.0010

AXIAL POSITION # 46, AXIAL LOCATION = 1.25 INCHES, SALT OBSERVED = 0.0003 G-SALT/LBM-WATER, SALT MISSED = 0.0046 G-SALT/LBM-WATER

AXIAL POSITION # 47, AXIAL LOCATION = 1.00 INCHES, SALT OBSERVED =0.0007 G-SALT/LBM-WATER, SALT MISSED =0.0042 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0003	-0.0025	-0.0001	0.0002	0.0003	0.0004	0.0004	0.0005	0.0005
PROBES 9 THRU 16	0.0005	0.0004	0.0007	0.0004	0.0003	-0.0001	0.0001	0.0004	0.0004
PROBES 17 THRU 24	0.0002	0.0002	0.0004	0.0003	0.0003	0.0003	0.0017	0.0016	0.0010
PROBES 25 THRU 32	0.0003	0.0001	0.0016	-0.0013	0.0004	-0.0024	0.0003	0.0003	0.0002
PROBES 33 THRU 40	-0.0022	0.0001	-0.0030	-0.0023	0.0002	0.0005	0.0005	0.0003	0.0004
PROBES 41 THRU 48	0.0003	-0.0017	0.0005	0.0007	0.0003	-0.0001	0.0006	0.0004	0.0004
PROBES 49 THRU 56	-0.0002	0.0434	0.0004	0.0003	-0.0001	-0.0007	0.0006	0.0004	0.0004
PROBES 57 THRU 64	0.0006	-0.0027	0.0002	0.0007	0.0004	-0.0003	-0.0005	-0.0009	0.0002
PROBES 65 THRU 72	0.0004	-0.0019	0.0007	0.0004	0.0003	0.0003	0.0008	0.0002	0.0002
PROBES 73 THRU 80	0.0001	0.0002	0.0006	0.0004	0.0006	-0.0001	0.0005	0.0002	0.0002
PROBES 81 THRU 88	0.0005	0.0008	0.0009	0.0011	0.0006	0.0003	0.0004	0.0005	0.0010
AXIAL POSITION # 47, AXIAL LOCATION = 1.00 INCHES, SALT OBSERVED =0.0007 G-SALT/LBM-WATER, SALT MISSED =0.0042 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0004	0.0003	0.0009	0.0005	0.0004	0.0003	0.0003	0.0004	0.0004
PROBES 9 THRU 16	0.0004	0.0004	0.0007	0.0004	0.0003	-0.0001	0.0005	0.0004	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0005	0.0003	0.0017	0.0010	0.0010
PROBES 25 THRU 32	0.0002	0.0001	0.0026	-0.0009	0.0004	-0.0024	0.0003	0.0001	0.0001
PROBES 33 THRU 40	-0.0013	0.0001	-0.0001	-0.0001	0.0002	0.0002	0.0005	0.0003	0.0003
PROBES 41 THRU 48	0.0003	-0.0009	0.0005	0.0007	0.0000	0.0005	0.0008	0.0004	0.0004
PROBES 49 THRU 56	0.0003	0.0846	0.0003	0.0001	0.0003	-0.0012	0.0002	0.0004	0.0004
PROBES 57 THRU 64	0.0007	-0.0018	0.0002	0.0005	0.0003	0.0003	-0.0009	-0.0014	0.0004
PROBES 65 THRU 72	0.0004	-0.0024	0.0008	0.0004	0.0004	0.0002	0.0005	-0.0000	0.0000
PROBES 73 THRU 80	0.0001	0.0002	0.0005	0.0003	0.0006	0.0003	0.0004	0.0003	0.0003
PROBES 81 THRU 88	0.0005	0.0009	0.0008	0.0009	0.0012	0.0003	0.0004	0.0003	0.0010

**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT INCLUDED IN THE MASS BALANCE CALCULATIONS:

**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:

1	2	3	4
25	26	27	28
73	74	75	76
49	50	51	52

A5.2. Central Injection Mixing Data (gm/lbm)

Injection Subchannel: 50

Reynolds Number: 11410

Flow Rate: 185 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.31 lbm/min

**SALT CONCENTRATIONS FOLLOW:

AXIAL POSITION # 1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED = 0.0027 G-SALT/LBM-WATER, SALT MISSED = 0.0024 G-SALT/LBM-WATER							
PROBES 1 THRU 8	0.0094	0.0077	0.0028	0.0027	0.0028	0.0005	0.0002
PROBES 9 THRU 16	0.0038	0.0032	0.0020	0.0012	0.0011	-0.0001	0.0023
PROBES 17 THRU 24	0.0017	0.0006	0.0004	0.0009	0.0007	0.0059	0.0051
PROBES 25 THRU 32	0.0086	0.0046	0.0109	0.0017	0.0053	0.0002	0.0048
PROBES 33 THRU 40	0.0126	0.0030	0.0095	-0.0001	0.0030	0.0022	0.0008
PROBES 41 THRU 48	0.0028	0.0074	-0.0005	0.0013	0.0004	-0.0006	0.0005
PROBES 49 THRU 56	0.0069	0.0141	0.0070	0.0120	0.0114	0.0008	-0.0001

PROBES	57 THRU	64	0.0052	0.0124	0.0058	0.0025	0.0017	0.0023	0.0034	0.0131
PROBES	65 THRU	72	0.0022	0.0004	0.0009	0.0009	0.0012	0.0009	0.0004	-0.0007
PROBES	73 THRU	80	0.0072	0.0007	0.0005	0.0031	0.0021	0.0126	0.0083	0.0090
PROBES	81 THRU	88	0.0050	0.0019	0.0010	-0.0002	0.0002	0.0033	0.0032	0.0016
PROBES	89 THRU	96	0.0011	0.0014	0.0002	-0.0004	0.0097	0.0099	0.0003	0.0085
PROBES	97 THRU	104	0.0017	0.0004	0.0000	-0.0001	0.0021	-0.0002	0.0020	0.0007
PROBES	105 THRU	112	0.0003	0.0003	0.0030	0.0002	0.0003	0.0003	0.0000	0.0009
PROBES	113 THRU	120	0.0006	-0.0007	-0.0003	-0.0013	0.0003	0.0001	0.0040	0.0011
PROBES	121 THRU	126	-0.0001	0.0001	-0.0007	0.0002	0.0009	-0.0004		

AXIAL POSITION # 2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBM-WATER, SALT MISSED = 0.0022 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0115	0.0131	0.0052	0.0015	0.0001	0.0006	-0.0001	0.0003
PROBES	9 THRU	16	0.0048	0.0035	0.0013	0.0000	-0.0000	-0.0001	0.0001	0.0021
PROBES	17 THRU	24	0.0008	0.0001	0.0004	0.0004	0.0005	0.0000	0.0033	0.0021
PROBES	25 THRU	32	0.0105	0.0109	0.0150	0.0141	0.0067	0.0097	0.0026	0.0090
PROBES	33 THRU	40	0.0142	0.0084	0.0138	0.0137	0.0008	0.0041	0.0032	0.0037
PROBES	41 THRU	48	0.0067	0.0102	0.0013	-0.0003	0.0022	0.0013	-0.0002	0.0009
PROBES	49 THRU	56	0.0052	0.0152	0.0125	0.0097	0.0145	0.0144	0.0038	0.0006
PROBES	57 THRU	64	0.0050	0.0130	0.0085	0.0045	0.0032	0.0048	0.0073	0.0103
PROBES	65 THRU	72	0.0023	0.0302	0.0006	0.0010	0.0007	0.0011	0.0003	-0.0007
PROBES	73 THRU	80	0.0053	0.0001	0.0000	0.0008	0.0002	0.0102	0.0045	0.0061
PROBES	81 THRU	88	0.0030	-0.0002	-0.0004	-0.0003	0.0003	0.0020	0.0018	0.0002
PROBES	89 THRU	96	0.0001	0.0002	-0.0003	-0.0008	0.0061	0.0057	-0.0003	0.0035
PROBES	97 THRU	104	-0.0016	0.0003	0.0001	-0.0001	0.0005	0.0002	0.0032	0.0021
PROBES	105 THRU	112	0.0011	0.0003	0.0055	0.0006	-0.0000	0.0009	0.0004	0.0019
PROBES	113 THRU	120	0.0012	-0.0011	-0.0001	-0.0005	0.0004	0.0005	0.0017	-0.0037
PROBES	121 THRU	126	0.0004	0.0000	-0.0002	0.0008	0.0022	0.0000		

AXIAL POSITION # 3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBM-WATER, SALT MISSED = 0.0022 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0152	0.0154	0.0103	0.0049	0.0042	0.0022	0.0003	0.0001
PROBES	9 THRU	16	0.0049	0.0064	0.0032	0.0019	0.0010	0.0006	-0.0001	0.0027
PROBES	17 THRU	24	0.0017	0.0002	0.0004	0.0002	0.0003	0.0001	0.0043	0.0031
PROBES	25 THRU	32	0.0128	0.0080	0.0126	0.0113	0.0018	0.0048	0.0001	0.0070
PROBES	33 THRU	40	0.0134	0.0033	0.0099	0.0085	-0.0001	0.0029	0.0021	0.0009
PROBES	41 THRU	48	0.0022	0.0061	0.0001	-0.0006	0.0010	0.0001	-0.0004	0.0004
PROBES	49 THRU	56	0.0121	0.0158	0.0102	0.0066	0.0125	0.0115	0.0003	0.0000
PROBES	57 THRU	64	0.0090	0.0137	0.0092	0.0034	0.0013	0.0023	0.0021	0.0113
PROBES	65 THRU	72	0.0027	0.0081	0.0003	0.0004	0.0013	0.0007	0.0002	-0.0004
PROBES	73 THRU	80	0.0113	0.0003	0.0002	0.0024	0.0027	0.0138	0.0107	0.0128
PROBES	81 THRU	88	0.0075	0.0030	0.0011	-0.0004	-0.0001	0.0041	0.0037	0.0019
PROBES	89 THRU	96	0.0009	0.0011	-0.0002	0.0003	0.0083	0.0094	0.0001	0.0069
PROBES	97 THRU	104	0.0004	0.0003	0.0000	-0.0001	0.0006	0.0031	-0.0001	-0.0005
PROBES	105 THRU	112	0.0004	0.0004	0.0017	0.0003	0.0005	0.0002	-0.0000	0.0008
PROBES	113 THRU	120	0.0006	-0.0006	-0.0004	-0.0010	0.0004	0.0001	0.0044	-0.0014
PROBES	121 THRU	126	0.0004	0.0000	-0.0005	0.0003	0.0009	-0.0001		

AXIAL POSITION # 4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 0.0037 G-SALT/LBM-WATER, SALT MISSED = 0.0013 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0188	0.0147	0.0070	0.0012	0.0003	0.0009	-0.0002	0.0002
PROBES	9 THRU	16	0.0090	0.0068	0.0022	0.0006	0.0000	-0.0000	-0.0001	0.0031
PROBES	17 THRU	24	0.0014	0.0001	0.0003	0.0003	0.0066	0.0001	0.0043	0.0031
PROBES	25 THRU	32	0.0220	0.0198	0.0198	0.0161	0.0102	0.0093	0.0017	0.0172
PROBES	33 THRU	40	0.0180	0.0152	0.0155	0.0145	0.0015	0.0057	0.0060	0.0089
PROBES	41 THRU	48	0.0106	0.0116	0.0017	-0.0001	0.0029	0.0020	0.0001	0.0014
PROBES	49 THRU	56	0.0081	0.0191	0.0181	0.0142	0.0156	0.0148	0.0036	0.0002
PROBES	57 THRU	64	0.0071	0.0134	0.0094	0.0038	0.0023	0.0034	0.0053	0.0093
PROBES	65 THRU	72	0.0012	0.0066	0.0003	0.0005	0.0004	0.0007	0.0002	-0.0008
PROBES	73 THRU	80	0.0064	0.0002	0.0000	0.0007	0.0000	0.0105	0.0064	0.0084

AXIAL POSITION # 5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER											
PROBES 81 THRU 88	0.0027	-0.0003	-0.0004	-0.0003	0.0001	0.0003	0.0001	0.0013	0.0013	0.0013	0.0002
PROBES 89 THRU 96	0.0002	0.0002	-0.0002	-0.0007	0.0002	0.0007	0.0052	0.0048	0.0048	-0.0003	0.0032
PROBES 97 THRU 104	0.0030	0.0004	0.0000	-0.0001	0.0032	0.0001	0.0032	-0.0002	0.0032	0.0032	0.0025
PROBES 105 THRU 112	0.0011	0.0003	0.0058	0.0003	0.0003	0.0003	-0.0001	0.0005	0.0005	0.0002	0.0013
PROBES 113 THRU 120	0.0010	-0.0006	-0.0002	-0.0001	0.0003	0.0010	0.0003	0.0002	0.0002	0.0004	0.0007
PROBES 121 THRU 126	0.0001	0.0001	0.0003	0.0010	0.0020	0.0010	0.0020	-0.0005	-0.0005		

AXIAL POSITION # 6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0237	0.0185	0.0141	0.0059	0.0050	0.0050	0.0024	0.0001	0.0001	0.0001	0.0001
PROBES 9 THRU 16	0.0145	0.0140	0.0076	0.0042	0.0012	0.0012	0.0011	-0.0001	-0.0001	0.0066	0.0056
PROBES 17 THRU 24	0.0048	0.0008	0.0005	0.0003	0.0020	0.0020	0.0014	0.0062	0.0062	0.0154	0.0072
PROBES 25 THRU 32	0.0212	0.0139	0.0151	0.0130	0.0030	0.0030	0.0053	0.0095	0.0095	0.0008	-0.0001
PROBES 33 THRU 40	0.0169	0.0078	0.0122	0.0112	0.0000	0.0000	0.0088	0.0002	0.0002	0.0092	-0.0008
PROBES 41 THRU 48	0.0063	0.0088	0.0035	0.0013	0.0034	0.0034	0.0021	0.0004	0.0004	0.0002	0.0001
PROBES 49 THRU 56	0.0124	0.0188	0.0132	0.0074	0.0129	0.0129	0.0115	0.0045	0.0045	0.0002	0.0008
PROBES 57 THRU 64	0.0069	0.0128	0.0066	0.0020	0.0008	0.0008	0.0012	0.0002	0.0002	0.0002	0.0008
PROBES 65 THRU 72	0.0039	0.0046	0.0032	0.0004	0.0004	0.0004	0.0004	0.0002	0.0002	0.0002	0.0008
PROBES 73 THRU 80	0.0094	0.0004	-0.0000	0.0018	0.0018	0.0018	0.0136	0.0002	0.0002	0.0124	0.0158
PROBES 81 THRU 88	0.0050	0.0008	-0.0002	-0.0007	-0.0001	-0.0001	0.0014	0.0017	0.0017	0.0003	0.0003
PROBES 89 THRU 96	0.0002	0.0002	-0.0003	-0.0008	0.0058	0.0058	0.0060	-0.0003	-0.0003	0.0009	0.0009
PROBES 97 THRU 104	0.0030	0.0005	0.0000	-0.0001	0.0038	0.0038	-0.0003	0.0043	0.0043	0.0000	0.0009
PROBES 105 THRU 112	0.0007	0.0003	0.0036	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0009
PROBES 113 THRU 120	0.0006	-0.0006	-0.0003	-0.0011	0.0003	0.0003	0.0001	0.0001	0.0001	0.0004	0.0014
PROBES 121 THRU 126	0.0001	0.0003	-0.0003	0.0003	0.0011	0.0011	-0.0004	0.0054	0.0054		

AXIAL POSITION # 7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0232	0.0185	0.0129	0.0061	0.0044	0.0044	0.0020	0.0003	0.0003	0.0001	0.0001
PROBES 9 THRU 16	0.0063	0.0082	0.0038	0.0021	0.0009	0.0009	0.0008	-0.0001	-0.0001	0.0025	0.0025
PROBES 17 THRU 24	0.0016	0.0001	0.0004	0.0002	0.0003	0.0003	-0.0000	0.0040	0.0040	0.0037	0.0037
PROBES 25 THRU 32	0.0175	0.0130	0.0139	0.0120	0.0018	0.0018	0.0037	0.0001	0.0001	0.0088	0.0088
PROBES 33 THRU 40	0.0142	0.0042	0.0101	0.0090	-0.0001	-0.0001	0.0034	0.0022	0.0022	0.0011	0.0011
PROBES 41 THRU 48	0.0021	0.0063	0.0032	-0.0007	0.0009	0.0009	0.0002	-0.0005	-0.0005	0.0005	0.0005
PROBES 49 THRU 56	0.0205	0.0202	0.0158	0.0106	0.0138	0.0138	0.0124	0.0005	0.0005	-0.0001	-0.0001
PROBES 57 THRU 64	0.0161	0.0158	0.0125	0.0048	0.0016	0.0016	0.0025	0.0034	0.0034	0.0128	0.0128
PROBES 65 THRU 72	0.0041	0.0089	0.0005	0.0004	0.0013	0.0013	0.0008	0.0003	0.0003	-0.0008	-0.0008
PROBES 73 THRU 80	0.0183	0.0004	0.0001	0.0023	0.0040	0.0040	0.0155	0.0158	0.0158	0.0195	0.0195
PROBES 81 THRU 88	0.0117	0.0045	0.0015	-0.0005	-0.0001	-0.0001	0.0056	0.0061	0.0061	0.0024	0.0024
PROBES 89 THRU 96	0.0009	0.0007	-0.0002	-0.0002	0.0007	0.0007	0.0096	0.0001	0.0001	0.0061	0.0061
PROBES 97 THRU 104	0.0017	0.0004	0.0000	-0.0001	0.0020	0.0020	-0.0003	0.0014	0.0014	0.0014	0.0014
PROBES 105 THRU 112	0.0008	0.0003	0.0036	0.0002	0.0003	0.0003	0.0003	0.0001	0.0001	0.0001	0.0001
PROBES 113 THRU 120	0.0010	-0.0008	-0.0005	-0.0010	0.0003	0.0003	0.0001	0.0060	0.0060	0.0011	0.0011
PROBES 121 THRU 126	0.0000	0.0002	-0.0007	0.0004	0.0013	0.0013	-0.0004				

AXIAL POSITION # 8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0232	0.0172	0.0120	0.0040	0.0035	0.0035	0.0013	-0.0001	-0.0001	0.0001	0.0001
PROBES 9 THRU 16	0.0043	0.0043	0.0012	0.0010	0.0001	0.0001	0.0001	-0.0002	-0.0002	0.0011	0.0011
PROBES 17 THRU 24	0.0004	0.0001	0.0003	0.0002	0.0001	0.0001	-0.0000	0.0043	0.0043	0.0034	0.0034
PROBES 25 THRU 32	0.0165	0.0118	0.0130	0.0120	0.0018	0.0018	0.0040	0.0001	0.0001	0.0059	0.0059
PROBES 33 THRU 40	0.0128	0.0024	0.0084	0.0077	-0.0001	-0.0001	0.0020	0.0010	0.0010	0.0001	0.0001
PROBES 41 THRU 48	0.0015	0.0063	0.0002	-0.0007	0.0003	0.0003	0.0001	-0.0003	-0.0003	0.0005	0.0005
PROBES 49 THRU 56	0.0229	0.0210	0.0168	0.0112	0.0144	0.0144	0.0132	0.0011	0.0011	-0.0001	-0.0001
PROBES 57 THRU 64	0.0209	0.0186	0.0174	0.0085	0.0028	0.0028	0.0037	0.0045	0.0045	-0.0008	-0.0008
PROBES 65 THRU 72	0.0076	0.0106	0.0007	0.0004	0.0028	0.0028	0.0014	0.0005	0.0005	0.0142	0.0142
PROBES 73 THRU 80	0.0213	0.0002	-0.0000	0.0018	0.0032	0.0032	0.0150	0.0154	0.0154	0.0172	0.0172
PROBES 81 THRU 88	0.0138	0.0046	-0.0014	-0.0006	-0.0001	-0.0001	0.0089	0.0103	0.0103	0.0040	0.0040
PROBES 89 THRU 96	0.0016	0.0012	-0.0002	0.0014	0.0098	0.0098	0.0105	0.0004	0.0004	0.0074	0.0074
PROBES 97 THRU 104	0.0026	0.0004	0.0000	-0.0001	0.0020	0.0020	-0.0003	0.0014	0.0014	0.0016	0.0016

AXIAL POSITION # 8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED = 0.0039 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER									
PROBES 105 THRU 112	0.0004	0.0003	0.0030	0.0002	0.0002	0.0004	0.0002	0.0012	
PROBES 113 THRU 120	0.0009	-0.0008	-0.0005	-0.0013	0.0003	0.0001	0.0054	0.0018	
PROBES 121 THRU 126	0.0001	0.0002	-0.0007	0.0005	0.0016	-0.0002			
AXIAL POSITION # 9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0012 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0232	0.0155	0.0070	0.0008	0.0001	0.0005	-0.0001	0.0002	
PROBES 9 THRU 16	0.0107	0.0070	0.0019	0.0004	-0.0001	-0.0001	-0.0002	0.0026	
PROBES 17 THRU 24	0.0013	0.0001	0.0004	0.0002	0.0003	-0.0000	0.0033	0.0034	
PROBES 25 THRU 32	0.0269	0.0254	0.0233	0.0173	0.0127	0.0081	0.0014	0.0207	
PROBES 33 THRU 40	0.0199	0.0190	0.0160	0.0145	0.0110	0.0057	0.0074	0.0105	
PROBES 41 THRU 48	0.0104	0.0115	0.0016	-0.0004	0.0022	0.0014	0.0000	0.0016	
PROBES 49 THRU 56	0.0086	0.0205	0.0228	0.0164	0.0162	0.0149	0.0023	-0.0000	
PROBES 57 THRU 64	0.0064	0.0135	0.0103	0.0033	0.0021	0.0029	0.0085	0.0007	
PROBES 65 THRU 72	0.0010	0.0063	0.0003	0.0008	0.0003	0.0004	0.0002	-0.0007	
PROBES 73 THRU 80	0.0070	0.0003	0.0000	0.0006	-0.0000	0.0104	0.0064	0.0084	
PROBES 81 THRU 88	0.0022	-0.0003	-0.0002	-0.0000	0.0003	0.0112	0.0013	0.0000	
PROBES 89 THRU 96	0.0003	0.0002	-0.0001	-0.0007	0.0039	0.0045	-0.0003	0.0035	
PROBES 97 THRU 104	0.0026	0.0004	0.0000	-0.0001	0.0026	-0.0001	0.0032	0.0025	
PROBES 105 THRU 112	0.0016	0.0003	0.0008	0.0032	0.0000	0.0006	0.0001	0.0013	
PROBES 113 THRU 120	0.0010	-0.0005	-0.0004	-0.0010	0.0003	0.0002	0.0047	0.0018	
PROBES 121 THRU 126	0.0001	0.0000	0.0006	0.0006	0.0018	-0.0002			
AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0288	0.0208	0.0163	0.0067	0.0048	0.0018	-0.0000	0.0001	
PROBES 9 THRU 16	0.0160	0.0142	0.0074	0.0037	0.0008	0.0006	-0.0001	0.0054	
PROBES 17 THRU 24	0.0041	0.0007	0.0005	0.0002	0.0013	0.0004	0.0047	0.0043	
PROBES 25 THRU 32	0.0247	0.0154	0.0150	0.0122	0.0017	0.0032	0.0001	0.0167	
PROBES 33 THRU 40	0.0174	0.0072	0.0110	0.0109	-0.0001	0.0079	0.0078	0.0059	
PROBES 41 THRU 48	0.0046	0.0079	0.0003	0.0000	0.0024	0.0008	-0.0005	0.0006	
PROBES 49 THRU 56	0.0159	0.0204	0.0146	0.0082	0.0128	0.0099	0.0000	-0.0000	
PROBES 57 THRU 64	0.0085	0.0131	0.0076	0.0114	0.0005	0.0008	0.0034	0.0095	
PROBES 65 THRU 72	0.0007	0.0037	0.0002	0.0003	0.0003	0.0003	0.0002	-0.0008	
PROBES 73 THRU 80	0.0115	0.0002	-0.0000	0.0014	0.0019	0.0146	0.0156	0.0182	
PROBES 81 THRU 88	0.0057	0.0010	-0.0002	-0.0006	0.0000	0.0016	0.0022	0.0003	
PROBES 89 THRU 96	0.0001	0.0002	-0.0003	-0.0008	0.0055	0.0057	-0.0003	0.0042	
PROBES 97 THRU 104	0.0026	0.0003	0.0000	-0.0001	0.0032	-0.0003	0.0029	0.0025	
PROBES 105 THRU 112	0.0006	0.0003	0.0039	0.0002	0.0003	0.0002	-0.0000	0.0010	
PROBES 113 THRU 120	0.0005	-0.0008	-0.0004	-0.0010	0.0003	0.0001	0.0054	0.0014	
PROBES 121 THRU 126	-0.0000	0.0003	-0.0006	0.0003	0.0009	-0.0004			
AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0011 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0280	0.0210	0.0174	0.0082	0.0072	0.0023	0.0003	0.0001	
PROBES 9 THRU 16	0.0065	0.0090	0.0033	0.0030	0.0008	0.0007	-0.0001	0.0015	
PROBES 17 THRU 24	0.0009	0.0001	0.0004	0.0002	0.0002	0.0000	0.0036	0.0034	
PROBES 25 THRU 32	0.0212	0.0118	0.0129	0.0111	0.0009	0.0026	0.0001	0.0083	
PROBES 33 THRU 40	0.0138	0.0021	0.0075	0.0061	-0.0001	0.0024	0.0018	0.0003	
PROBES 41 THRU 48	0.0010	0.0056	0.0002	-0.0007	0.0004	0.0001	-0.0004	0.0005	
PROBES 49 THRU 56	0.0268	0.0221	0.0171	0.0090	0.0133	0.0105	0.0001	-0.0000	
PROBES 57 THRU 64	0.0186	0.0165	0.0121	0.0038	0.0009	0.0013	0.0037	0.0122	
PROBES 65 THRU 72	0.0024	0.0068	0.0002	0.0004	0.0007	0.0004	0.0002	-0.0007	
PROBES 73 THRU 80	0.0226	0.0003	0.0001	0.0024	0.0007	0.0004	0.00214	0.0240	
PROBES 81 THRU 88	0.0148	0.0061	0.0023	-0.0005	-0.0001	0.0053	0.0063	0.0027	
PROBES 89 THRU 96	0.0011	0.0006	-0.0003	-0.0007	0.0079	0.0088	-0.0002	0.0066	
PROBES 97 THRU 104	0.0038	0.0003	0.0000	-0.0001	0.0026	-0.0001	0.0020	0.0021	
PROBES 105 THRU 112	0.0006	0.0003	0.0039	0.0002	0.0003	0.0002	0.0000	0.0011	
PROBES 113 THRU 120	0.0006	-0.0008	-0.0005	-0.0009	0.0003	0.0001	0.0060	0.0011	
PROBES 121 THRU 126	-0.0000	0.0001	-0.0007	0.0003	0.0009	-0.0004			

AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0255	0.0172	0.0105	0.0023	0.0014	0.0008	-0.0002	0.0002
PROBES 9 THRU 16	0.0038	0.0034	0.0037	0.0004	-0.0001	-0.0001	-0.0001	0.0009
PROBES 17 THRU 24	0.0004	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0047	0.0037
PROBES 25 THRU 32	0.0201	0.0147	0.0129	0.0120	0.0015	0.0034	0.0001	0.0068
PROBES 33 THRU 40	0.0131	0.0019	0.0082	0.0058	-0.0001	0.0011	0.0004	-0.0004
PROBES 41 THRU 48	0.0010	0.0061	0.0002	-0.0007	0.0002	0.0001	-0.0004	0.0005
PROBES 49 THRU 56	0.0238	0.0259	0.0204	0.0142	0.0151	0.0125	0.0002	-0.0000
PROBES 57 THRU 64	0.0265	0.0219	0.0210	0.0098	0.0022	0.0032	0.0037	0.0147
PROBES 65 THRU 72	0.0076	0.0097	0.0004	0.0004	0.0019	0.0011	0.0003	-0.0008
PROBES 73 THRU 80	0.0267	0.0003	-0.0000	0.0011	0.0018	0.0154	0.0168	0.0195
PROBES 81 THRU 88	0.0141	0.0041	0.0038	-0.0007	-0.0001	0.0099	0.0103	0.0039
PROBES 89 THRU 96	0.0011	0.0006	-0.0003	0.0003	0.0095	0.0097	-0.0001	0.0049
PROBES 97 THRU 104	0.0038	0.0003	0.0000	-0.0001	0.0032	-0.0003	0.0023	0.0021
PROBES 105 THRU 112	0.0007	0.0003	0.0039	0.0002	0.0001	0.0003	0.0001	0.0012
PROBES 113 THRU 120	0.0008	-0.0007	-0.0003	-0.0010	0.0003	0.0001	0.0040	0.0003
PROBES 121 THRU 126	-0.0000	0.0002	-0.0007	0.0002	0.0017	-0.0005		

AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0288	0.0171	0.0079	0.0009	0.0003	0.0006	-0.0001	0.0002
PROBES 9 THRU 16	0.0122	0.0084	0.0014	0.0003	-0.0001	-0.0000	-0.0002	0.0022
PROBES 17 THRU 24	0.0012	0.0001	0.0004	0.0002	0.0003	0.0000	0.0047	0.0043
PROBES 25 THRU 32	0.0319	0.0292	0.0257	0.0184	0.0113	0.0072	0.0006	0.0239
PROBES 33 THRU 40	0.0217	0.0182	0.0155	0.0139	0.0003	0.0048	0.0064	0.0087
PROBES 41 THRU 48	0.0080	0.0106	0.0008	-0.0007	0.0010	0.0004	-0.0005	0.0012
PROBES 49 THRU 56	0.0095	0.0225	0.0262	0.0182	0.0162	0.0145	0.0016	-0.0001
PROBES 57 THRU 64	0.0069	0.0137	0.0107	0.0031	0.0011	0.0018	0.0037	0.0075
PROBES 65 THRU 72	0.0003	0.0046	0.0002	0.0004	0.0002	0.0003	0.0002	-0.0008
PROBES 73 THRU 80	0.0072	0.0002	0.0000	0.0005	0.0000	0.0109	0.0075	0.0107
PROBES 81 THRU 88	0.0020	-0.0003	-0.0003	0.0003	0.0003	0.0010	0.0009	0.0000
PROBES 89 THRU 96	0.0004	0.0002	-0.0001	-0.0005	0.0042	0.0038	-0.0003	0.0035
PROBES 97 THRU 104	0.0034	0.0003	0.0000	-0.0001	0.0029	-0.0001	0.0020	0.0021
PROBES 105 THRU 112	0.0017	0.0003	0.0042	0.0002	0.0002	0.0004	0.0031	0.0016
PROBES 113 THRU 120	0.0008	-0.0009	-0.0004	-0.0011	0.0003	0.0001	0.0057	0.0022
PROBES 121 THRU 126	-0.0000	0.0002	0.0000	0.0008	0.0013	-0.0004		

AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER; SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0358	0.0250	0.0174	0.0057	0.0027	0.0011	-0.0002	0.0001
PROBES 9 THRU 16	0.0207	0.0179	0.0076	0.0036	0.0004	0.0002	-0.0002	0.0057
PROBES 17 THRU 24	0.0038	0.0003	0.0004	0.0002	0.0006	0.0000	0.0043	0.0037
PROBES 25 THRU 32	0.0350	0.0216	0.0181	0.0130	0.0027	0.0040	0.0001	0.0241
PROBES 33 THRU 40	0.0217	0.0125	0.0119	0.0110	-0.0001	0.0086	0.0110	0.0080
PROBES 41 THRU 48	0.0058	0.0084	0.0033	-0.0005	0.0019	0.0006	-0.0006	0.0005
PROBES 49 THRU 56	0.0132	0.0212	0.0176	0.0082	0.0129	0.0101	-0.0000	-0.0000
PROBES 57 THRU 64	0.0052	0.0122	0.0061	0.0008	0.0003	0.0005	0.0034	0.0068
PROBES 65 THRU 72	0.0002	0.0034	0.0002	0.0004	0.0002	0.0003	0.0002	-0.0008
PROBES 73 THRU 80	0.0083	0.0003	0.0000	0.0008	0.0007	0.0131	0.0140	0.0177
PROBES 81 THRU 88	0.0030	-0.0001	-0.0004	-0.0002	0.0001	0.0007	0.0007	0.0000
PROBES 89 THRU 96	0.0002	0.0002	-0.0001	-0.0004	0.0049	0.0038	-0.0003	0.0035
PROBES 97 THRU 104	0.0026	0.0004	0.0000	0.0001	0.0032	-0.0003	0.0020	0.0021
PROBES 105 THRU 112	0.0011	0.0003	0.0039	0.0002	0.0003	0.0002	-0.0000	0.0009
PROBES 113 THRU 120	0.0005	-0.0006	-0.0003	-0.0008	0.0003	0.0001	0.0057	0.0005
PROBES 121 THRU 126	-0.0000	0.0002	-0.0005	0.0004	0.0009	-0.0004		

AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBM-WATER, SALT MISSED = 0.0008 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0368	0.0275	0.0236	0.0107	0.0077	0.0019	-0.0000	0.0001
PROBES	9 THRU	16	0.0074	0.0110	0.0033	0.0027	0.0004	0.0003	-0.0002	0.0012
PROBES	17 THRU	24	0.0007	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0050	0.0037
PROBES	25 THRU	32	0.0261	0.0159	0.0122	0.0104	0.0003	0.0029	0.0001	0.0090
PROBES	33 THRU	40	0.0138	0.0015	0.0062	0.0036	-0.0001	0.0014	0.0007	-0.0005
PROBES	41 THRU	48	0.0006	0.0047	0.0001	-0.0005	0.0004	0.0001	-0.0003	0.0004
PROBES	49 THRU	56	0.0039	0.0297	0.0209	0.0101	0.0134	0.0080	-0.0001	0.0001
PROBES	57 THRU	64	0.0221	0.0166	0.0115	0.0025	0.0004	0.0005	0.0034	0.0110
PROBES	65 THRU	72	0.0009	0.0043	0.0002	0.0004	0.0002	0.0003	0.0002	-0.0007
PROBES	73 THRU	80	0.0259	0.0002	0.0000	0.0020	0.0002	0.0208	0.0283	0.0311
PROBES	81 THRU	88	0.0151	0.0059	0.0011	-0.0007	0.0000	0.0034	0.0051	0.0009
PROBES	89 THRU	96	0.0003	0.0003	-0.0003	-0.0006	0.0046	0.0057	-0.0003	0.0046
PROBES	97 THRU	104	0.0026	0.0004	0.0000	-0.0001	0.0001	-0.0003	0.0020	0.0021
PROBES	105 THRU	112	0.0006	0.0003	0.0030	0.0002	0.0001	0.0002	-0.0000	0.0008
PROBES	113 THRU	120	0.0007	-0.0006	-0.0003	-0.0008	0.0003	0.0001	0.0057	0.0025
PROBES	121 THRU	126	-0.0000	0.0003	-0.0007	0.0003	0.0008	-0.0004	0.0001	0.0005

AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBM-WATER, SALT MISSED = 0.0008 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0334	0.0189	0.0118	0.0042	0.0013	0.0005	-0.0002	0.0002
PROBES	9 THRU	16	0.0025	0.0021	0.0000	0.0001	-0.0001	-0.0001	-0.0002	0.0004
PROBES	17 THRU	24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0040	0.0043
PROBES	25 THRU	32	0.0244	0.0179	0.0124	0.0115	0.0003	0.0029	0.0001	0.0058
PROBES	33 THRU	40	0.0128	0.0006	0.0052	0.0036	-0.0001	0.0005	0.0002	-0.0005
PROBES	41 THRU	48	0.0003	0.0047	0.0001	-0.0003	0.0002	0.0001	-0.0003	0.0005
PROBES	49 THRU	56	0.0401	0.0356	0.0270	0.0169	0.0148	0.0090	-0.0001	-0.0000
PROBES	57 THRU	64	0.0336	0.0243	0.0219	0.0071	0.0008	0.0007	0.0031	0.0135
PROBES	65 THRU	72	0.0032	0.0060	0.0002	0.0003	0.0003	0.0004	0.0002	-0.0008
PROBES	73 THRU	80	0.0331	0.0002	0.0000	0.0011	0.0020	0.0175	0.0226	0.0250
PROBES	81 THRU	88	0.0185	0.0048	0.0011	-0.0007	-0.0000	0.0085	0.0094	0.0020
PROBES	89 THRU	96	0.0005	0.0005	-0.0003	-0.0008	0.0067	0.0075	-0.0003	0.0046
PROBES	97 THRU	104	0.0026	0.0004	0.0000	-0.0001	0.0026	-0.0001	0.0017	0.0021
PROBES	105 THRU	112	0.0006	0.0003	0.0030	0.0002	0.0001	0.0003	0.0001	0.0011
PROBES	113 THRU	120	0.0008	-0.0009	-0.0004	-0.0011	0.0003	0.0001	0.0057	0.0025
PROBES	121 THRU	126	0.0000	0.0002	-0.0007	0.0004	0.0011	-0.0005	0.0001	0.0005

AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED = 0.0041 G-SALT/LBM-WATER, SALT MISSED = 0.0009 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0334	0.0165	0.0058	-0.0002	-0.0006	0.0004	-0.0002	0.0001
PROBES	9 THRU	16	0.0103	0.0062	0.0003	-0.0001	-0.0001	-0.0001	-0.0002	0.0009
PROBES	17 THRU	24	0.0005	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0243	0.0034
PROBES	25 THRU	32	0.0406	0.0394	0.0323	0.0208	0.0107	0.0068	0.0005	0.0264
PROBES	33 THRU	40	0.0228	0.0179	0.0142	0.0125	-0.0001	0.0024	0.0035	0.0036
PROBES	41 THRU	48	0.0035	0.0074	0.0002	-0.0005	0.0005	0.0001	-0.0005	0.0007
PROBES	49 THRU	56	0.0091	0.0289	0.0355	0.0268	0.0208	0.0148	0.0008	-0.0000
PROBES	57 THRU	64	0.0067	0.0147	0.0133	0.0034	0.0013	0.0015	0.0051	0.0066
PROBES	65 THRU	72	0.0002	0.0034	0.0002	0.0005	0.0002	0.0003	0.0002	-0.0008
PROBES	73 THRU	80	0.0062	0.0003	0.0000	0.0005	-0.0001	0.0090	0.0050	0.0070
PROBES	81 THRU	88	0.0014	-0.0003	-0.0002	0.0001	0.0002	0.0006	0.0004	0.0001
PROBES	89 THRU	96	0.0005	0.0002	-0.0001	-0.0005	0.0042	0.0038	-0.0003	0.0035
PROBES	97 THRU	104	0.0038	0.0003	0.0001	-0.0001	0.0032	-0.0004	0.0020	0.0025
PROBES	105 THRU	112	0.0011	0.0003	0.0039	0.0002	0.0002	0.0003	0.0002	0.0012
PROBES	113 THRU	120	0.0008	-0.0008	-0.0004	-0.0012	0.0003	0.0001	0.0044	0.0014
PROBES	121 THRU	126	-0.0000	0.0000	-0.0001	0.0005	0.0016	-0.0002	0.0001	0.0002

AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0373	0.0198	0.0091	0.0004	-0.0003	0.0005	-0.0001	0.0002
PROBES	9 THRU	16	0.0138	0.0080	0.0008	0.0000	-0.0001	-0.0001	-0.0001	0.0015
PROBES	17 THRU	24	0.0006	0.0001	0.0004	0.0002	0.0002	-0.0000	0.0043	0.0037

PROBES	25 THRU	32	0.0418	0.0366	0.0301	0.0180	0.0100	0.0057	0.0004	0.0302
PROBES	33 THRU	40	C.0250	0.0179	0.0142	0.0000	-0.0000	0.0033	0.0043	0.0048
PROBES	41 THRU	48	0.0040	0.0076	0.0023	-0.0006	0.0004	0.0001	-0.0005	0.0037
PROBES	49 THRU	56	0.0074	0.0269	0.0238	0.0187	0.0162	0.0136	0.0004	-0.0001
PROBES	57 THRU	64	C.0026	C.0121	0.0066	0.0008	0.0005	0.001C	0.0045	0.0054
PROBES	65 THRU	72	0.0002	0.0037	0.0002	0.0004	0.0002	0.0003	0.0002	-0.0008
PROBES	73 THRU	80	C.0353	0.0003	-0.0000	0.0005	-0.0001	0.0105	0.0071	0.0101
PROBES	81 THRU	88	C.0014	-0.0003	-0.0003	0.0002	0.0002	0.0003	0.0003	0.0003
PROBES	89 THRU	96	C.0304	0.0002	-0.0001	-0.0005	0.0042	0.0031	-0.0003	0.0035
PROBES	97 THRU	104	0.0042	0.0003	0.0001	-0.0001	0.0032	-0.0004	0.0020	0.0025
PROBES	105 THRU	112	C.0009	0.0003	0.0039	0.0002	0.0002	0.0003	0.0001	0.0010
PROBES	113 THRU	120	C.0008	-0.0008	-0.0004	-0.0012	0.0003	0.0001	0.0044	0.0025
PROBES	121 THRU	126	-0.0000	0.0000	-0.0003	0.0004	0.0012	-0.0003		

AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0464	0.0305	0.0174	0.0035	0.0009	0.0004	-0.0002	0.0001
PROBES	9 THRU	16	0.0191	0.0162	0.0048	0.0009	-0.0001	-0.0001	-0.0002	0.0030
PROBES	17 THRU	24	0.0014	0.0001	0.0004	0.0002	0.0002	0.0000	0.0053	0.0043
PROBES	25 THRU	32	C.0424	0.0232	0.0142	0.0112	0.0003	0.0026	0.0001	0.0222
PROBES	33 THRU	40	0.0196	0.0041	0.0069	0.0047	-0.0031	0.0049	0.0050	0.0022
PROBES	41 THRU	48	C.0013	0.0049	0.0002	-0.0007	0.0003	0.0001	-0.0005	0.0004
PROBES	49 THRU	56	0.0214	0.0313	0.0220	0.0088	0.0124	0.0048	-0.0001	0.0001
PROBES	57 THRU	64	C.0073	0.0122	0.0059	0.0002	0.0032	0.0004	0.0034	0.0057
PROBES	65 THRU	72	0.0001	0.0037	0.0002	0.0004	0.0002	0.0002	0.0002	-0.0005
PROBES	73 THRU	80	0.0129	0.0003	-0.0000	0.0006	0.0001	0.0136	0.0196	0.0235
PROBES	81 THRU	88	C.0040	-0.0003	-0.0002	0.0001	0.0002	0.0004	0.0004	0.0000
PROBES	89 THRU	96	0.0003	0.0002	-0.0001	-0.0003	0.0036	0.0038	-0.0003	0.0035
PROBES	97 THRU	104	0.0030	0.0003	0.0001	-0.0001	0.0026	-0.0003	0.0017	0.0018
PROBES	105 THRU	112	0.0004	0.0003	0.0036	0.0002	0.0001	0.0002	-0.0000	0.0006
PROBES	113 THRU	120	0.0005	-0.0008	-0.0004	-0.0012	0.0003	0.0001	0.0047	0.0011
PROBES	121 THRU	126	-0.0000	0.0000	-0.0007	0.0004	0.0006	-0.0004		

AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED =0.0037 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0413	0.0268	0.0219	0.0084	0.0037	0.0007	-0.0002	0.0001
PROBES	9 THRU	16	0.0041	0.0048	0.0010	0.0008	-0.0001	-0.0001	-0.0002	0.0003
PROBES	17 THRU	24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0047	0.0045
PROBES	25 THRU	32	0.0266	0.0154	0.0107	0.0094	0.0030	0.0019	0.0001	0.0059
PROBES	33 THRU	40	0.0125	0.0002	0.0033	0.0023	-0.0001	0.0003	0.0003	-0.0002
PROBES	41 THRU	48	0.0004	0.0049	0.0002	-0.0003	0.0002	0.0001	-0.0003	0.0005
PROBES	49 THRU	56	0.0366	0.0294	0.0196	0.0082	0.0122	0.0032	-0.0001	0.0001
PROBES	57 THRU	64	0.0164	0.0142	0.0076	0.0008	0.0002	0.0004	0.0028	0.0068
PROBES	65 THRU	72	0.0001	0.0037	0.0002	0.0004	0.0002	0.0002	0.0002	-0.0004
PROBES	73 THRU	80	0.0234	0.0002	0.0000	0.0009	0.0020	0.0206	0.0281	0.0396
PROBES	81 THRU	88	0.0112	0.0025	-0.0004	-0.0001	0.0001	0.0006	0.0008	0.0001
PROBES	89 THRU	96	C.0002	0.0002	-0.0000	-0.0004	0.0042	0.0035	-0.0003	0.0035
PROBES	97 THRU	104	0.0038	0.0003	0.0001	-0.0001	0.0029	-0.0001	0.0020	0.0021
PROBES	105 THRU	112	0.0005	0.0003	0.0030	0.0002	0.0001	0.0002	0.0006	0.0006
PROBES	113 THRU	120	0.0004	-0.0008	-0.0004	-0.0012	0.0003	0.0001	0.0060	0.0022
PROBES	121 THRU	126	0.0000	0.0000	-0.0005	0.0003	0.0004	-0.0003		

AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0038 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES	1 THRU	8	0.0429	0.0266	0.0222	0.0088	0.0048	0.0006	-0.0001	0.0002
PROBES	9 THRU	16	0.0040	0.0048	0.0008	0.0006	-0.0001	-0.0001	-0.0001	0.0003
PROBES	17 THRU	24	0.0002	0.0001	0.0004	0.0003	0.0001	-0.0000	0.0036	0.0040
PROBES	25 THRU	32	0.0288	0.0159	0.0109	0.0092	-0.0001	0.0026	0.0001	0.0063
PROBES	33 THRU	40	0.0126	0.0003	0.0033	0.0009	-0.0000	0.0006	0.0002	-0.0001
PROBES	41 THRU	48	0.0004	0.0052	0.0002	-0.0003	0.0002	0.0001	-0.0002	0.0004

PROBES 49 THRU 56	0.0386	0.0316	0.0209	0.0084	0.0121	0.0027	0.0000	0.0002
PROBES 57 THRU 64	0.0189	0.0147	0.0081	0.0007	0.0147	0.0028	0.0000	0.0002
PROBES 65 THRU 72	0.0031	0.0040	0.0002	0.0003	0.0302	0.0002	0.0002	0.0007
PROBES 73 THRU 80	0.0254	0.0002	0.0001	0.0009	0.0023	0.0219	0.0342	0.0314
PROBES 81 THRU 88	0.0128	0.0024	-0.0004	-0.0001	0.0001	0.0007	0.0010	0.0001
PROBES 89 THRU 96	0.0002	0.0002	-0.0002	-0.0003	0.0032	0.0041	-0.0003	0.0032
PROBES 97 THRU 104	0.0042	0.0003	0.0001	-0.0001	0.0029	-0.0001	0.0020	0.0318
PROBES 105 THRU 112	0.0003	0.0003	0.0001	0.0002	0.0001	0.0002	0.0000	0.0008
PROBES 113 THRU 120	0.0005	-0.0009	-0.0004	-0.0011	0.0003	0.0001	0.0000	0.0008
PROBES 121 THRU 126	0.0001	0.0002	-0.0006	0.0003	0.0007	-0.0004	0.0063	0.0025

AXIAL POSITION # 21, AXIAL LOCATION = 9.50 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0010 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0400	0.0266	0.0250	0.0121	0.0064	0.0008	-0.0002	0.0002
PROBES 9 THRU 16	0.0014	0.0021	0.0005	0.0007	-0.0000	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0047	0.0037
PROBES 25 THRU 32	0.0186	0.0092	0.0092	0.0070	-0.0001	0.0019	0.0001	0.0025
PROBES 33 THRU 40	0.0132	-0.0002	0.0033	0.0023	0.0000	0.0006	0.0003	-0.0001
PROBES 41 THRU 48	0.0003	0.0036	0.0002	-0.0003	0.0002	0.0001	-0.0002	0.0003
PROBES 49 THRU 56	0.0512	0.0271	0.0141	0.0049	0.0103	0.0032	-0.0000	0.0001
PROBES 57 THRU 64	0.0265	0.0151	0.0062	0.0004	0.0002	0.0004	0.0021	0.0079
PROBES 65 THRU 72	0.0001	0.0043	0.0002	0.0003	0.0002	0.0003	0.0002	-0.0007
PROBES 73 THRU 80	0.0370	0.0002	0.0000	0.0011	0.0050	0.0314	0.0412	0.0435
PROBES 81 THRU 88	0.0220	0.0076	-0.0001	-0.0002	0.0061	0.0007	0.0019	0.0003
PROBES 89 THRU 96	0.0004	0.0003	-0.0001	-0.0000	0.0036	0.0041	-0.0003	0.0035
PROBES 97 THRU 104	0.0038	0.0003	0.0001	-0.0001	0.0020	-0.0004	0.0023	0.0021
PROBES 105 THRU 112	0.0005	0.0003	0.0039	0.0002	0.0003	0.0002	0.0000	0.0006
PROBES 113 THRU 120	0.0004	-0.0008	-0.0004	-0.0011	0.0003	0.0002	0.0063	0.0022
PROBES 121 THRU 126	0.0000	0.0000	-0.0006	0.0002	0.0005	-0.0004		

AXIAL POSITION # 22, AXIAL LOCATION = 9.00 INCHES, SALT OBSERVED =0.0039 G-SALT/LBM-WATER, SALT MISSED =0.0011 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0381	0.0165	0.0045	-0.0003	-0.0005	0.0004	-0.0002	0.0001
PROBES 9 THRU 16	0.0012	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0050	0.0040
PROBES 25 THRU 32	0.0338	0.0232	0.0199	0.0088	0.0000	0.0026	0.0001	0.0033
PROBES 33 THRU 40	0.0118	0.0001	0.0036	0.0040	-0.0001	0.0004	0.0002	-0.0002
PROBES 41 THRU 48	0.0004	0.0052	0.0001	-0.0006	0.0004	0.0002	-0.0003	0.0005
PROBES 49 THRU 56	0.0404	0.0466	0.0325	0.0212	0.0156	0.0044	-0.0001	0.0000
PROBES 57 THRU 64	0.0280	0.0235	0.0241	0.0057	0.0003	0.0005	0.0034	0.0093
PROBES 65 THRU 72	0.0002	0.0049	0.0002	0.0005	0.0002	0.0003	0.0002	-0.0008
PROBES 73 THRU 80	0.0262	0.0002	0.0000	0.0006	0.0000	0.0130	0.0177	0.0255
PROBES 81 THRU 88	0.0100	0.0001	-0.0004	-0.0001	0.0001	0.0013	0.0021	0.0000
PROBES 89 THRU 96	0.0003	0.0002	-0.0000	-0.0000	0.0036	0.0041	-0.0003	0.0046
PROBES 97 THRU 104	0.0038	0.0003	0.0001	-0.0001	0.0032	-0.0003	0.0023	0.0021
PROBES 105 THRU 112	0.0006	0.0003	0.0045	0.0002	0.0001	0.0003	0.0001	0.0009
PROBES 113 THRU 120	0.0006	-0.0008	-0.0004	-0.0001	0.0003	0.0001	0.0054	0.0005
PROBES 121 THRU 126	0.0001	0.0001	-0.0006	0.0004	0.0010	-0.0005		

AXIAL POSITION # 23, AXIAL LOCATION = 8.50 INCHES, SALT OBSERVED =0.0035 G-SALT/LBM-WATER, SALT MISSED =0.0015 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0376	0.0163	0.0027	-0.0004	-0.0006	0.0004	-0.0002	0.0001
PROBES 9 THRU 16	0.0073	0.0028	0.0001	-0.0001	-0.0001	-0.0001	-0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0043	0.0034
PROBES 25 THRU 32	0.0479	0.0428	0.0201	0.0160	0.0028	0.0032	0.0001	0.0259
PROBES 33 THRU 40	0.0200	0.0055	0.0057	0.0027	-0.0001	0.0006	0.0002	-0.0003
PROBES 41 THRU 48	0.0003	0.0052	0.0002	-0.0004	0.0003	0.0001	-0.0005	0.0006
PROBES 49 THRU 56	0.0067	0.0350	0.0417	0.0236	0.0173	0.0055	-0.0001	-0.0001
PROBES 57 THRU 64	0.0009	0.0115	0.0061	0.0002	0.0004	0.0006	0.0053	0.0054
PROBES 65 THRU 72	0.0002	0.0058	0.0003	0.0005	0.0003	0.0007	0.0002	-0.0008

PROBES 73 THRU 80	0.0034	0.0005	0.0001	0.0010	-0.0001	0.0091	0.0044	0.0048
PROBES 81 THRU 88	0.0013	0.0001	-0.0001	0.0001	0.0001	0.0003	0.0002	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0001	-0.0001	0.0032	0.0038	-0.0003	0.0046
PROBES 97 THRU 104	0.0038	0.0003	0.0001	-0.0001	0.0026	-0.0003	0.0017	0.0025
PROBES 105 THRU 112	0.0007	0.0003	0.0045	0.0002	0.0001	0.0003	0.0000	0.0008
PROBES 113 THRU 120	0.0004	-0.0008	-0.0002	-0.0001	0.0003	0.0001	0.0000	0.0018
PROBES 121 THRU 126	-0.0000	0.0000	-0.0036	0.0003	0.0011	-0.0005	0.0054	0.0018

AXIAL POSITION # 24, AXIAL LOCATION = 8.00 INCHES, SALT OBSERVED = 0.0037 G-SALT/LBM-WATER, SALT MISSED = 0.0013 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0358	0.0136	0.0022	-0.0004	-0.0006	0.0005	-0.0001	0.0002
PROBES 9 THRU 16	0.0041	0.0013	-0.0000	-0.0001	-0.0001	-0.0001	-0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0005	0.0002	0.0001	-0.0000	0.0053	0.0037
PROBES 25 THRU 32	0.0494	0.0489	0.0254	0.0195	0.0045	0.0037	0.0001	0.0229
PROBES 33 THRU 40	0.0204	0.0055	0.0062	0.0040	-0.0001	0.0007	0.0002	-0.0004
PROBES 41 THRU 48	0.0034	0.0054	0.0032	-0.0005	0.0006	0.0001	-0.0005	0.0006
PROBES 49 THRU 56	0.0044	0.0487	0.0533	0.0349	0.0251	0.0074	-0.0001	-0.0000
PROBES 57 THRU 64	0.0009	0.0128	0.0092	0.0004	0.0004	0.0005	0.0045	0.0054
PROBES 65 THRU 72	0.0002	0.0049	0.0002	0.0004	0.0003	0.0004	0.0002	-0.0008
PROBES 73 THRU 80	0.0014	0.0005	-0.0000	0.0009	-0.0001	0.0075	0.0014	0.0030
PROBES 81 THRU 88	0.0004	-0.0001	-0.0001	0.0001	0.0001	0.0003	0.0002	0.0002
PROBES 89 THRU 96	0.0006	0.0002	-0.0000	-0.0003	0.0039	0.0041	-0.0003	0.0039
PROBES 97 THRU 104	0.0034	0.0003	0.0001	-0.0001	0.0023	-0.0002	0.0017	0.0014
PROBES 105 THRU 112	0.0007	0.0017	0.0039	0.0002	0.0002	0.0003	0.0001	0.0010
PROBES 113 THRU 120	0.0008	-0.0009	-0.0004	-0.0010	0.0003	0.0001	0.0060	0.0022
PROBES 121 THRU 126	-0.0000	0.0000	-0.0005	0.0004	0.0013	-0.0006	0.0060	0.0022

AXIAL POSITION # 25, AXIAL LOCATION = 7.50 INCHES, SALT OBSERVED = 0.0044 G-SALT/LBM-WATER, SALT MISSED = 0.0006 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0423	0.0168	0.0027	-0.0004	-0.0005	0.0006	-0.0002	0.0001
PROBES 9 THRU 16	0.0105	0.0052	-0.0001	-0.0002	0.0004	0.0025	-0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	-0.0000	0.0047	0.0045
PROBES 25 THRU 32	0.0561	0.0555	0.0293	0.0215	0.0059	0.0040	0.0001	0.0349
PROBES 33 THRU 40	0.0259	0.0086	0.0079	0.0044	-0.0001	0.0009	0.0002	-0.0004
PROBES 41 THRU 48	0.0005	0.0061	0.0003	-0.0007	0.0006	0.0001	0.0002	0.0054
PROBES 49 THRU 56	0.0046	0.0418	0.0539	0.0335	0.0226	0.0080	-0.0001	-0.0000
PROBES 57 THRU 64	0.0003	0.0118	0.0064	0.0001	0.0002	0.0005	0.0042	0.0043
PROBES 65 THRU 72	0.0001	0.0030	0.0032	0.0007	0.0003	0.0004	0.0002	-0.0008
PROBES 73 THRU 80	0.0025	0.0002	0.0000	0.0006	-0.0002	0.0055	0.0021	0.0036
PROBES 81 THRU 88	0.0004	-0.0002	-0.0000	-0.0002	0.0000	0.0003	0.0002	0.0001
PROBES 89 THRU 96	0.0004	0.0002	-0.0002	-0.0007	0.0039	0.0041	-0.0003	0.0049
PROBES 97 THRU 104	0.0049	0.0004	0.0002	0.0004	0.0053	-0.0005	0.0074	0.0086
PROBES 105 THRU 112	0.0040	0.0003	0.0030	0.0002	0.0000	0.0005	0.0002	0.0010
PROBES 113 THRU 120	0.0010	-0.0009	-0.0004	-0.0012	0.0003	0.0001	0.0054	0.0018
PROBES 121 THRU 126	-0.0000	0.0000	-0.0004	0.0006	0.0016	-0.0007	0.0054	0.0018

AXIAL POSITION # 26, AXIAL LOCATION = 7.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0619	0.0270	0.0052	-0.0002	-0.0003	0.0005	-0.0002	0.0001
PROBES 9 THRU 16	0.0284	0.0184	0.0006	0.0011	0.0019	0.0027	-0.0001	0.0009
PROBES 17 THRU 24	0.0004	0.0001	0.0005	0.0003	0.0002	0.0001	0.0062	0.0058
PROBES 25 THRU 32	0.0623	0.0386	0.0111	0.0111	0.0001	0.0045	0.0001	0.0411
PROBES 33 THRU 40	0.0300	0.0066	0.0067	0.0051	-0.0001	0.0007	0.0002	-0.0005
PROBES 41 THRU 48	0.0005	0.0061	0.0002	-0.0006	0.0003	0.0001	0.0006	0.0008
PROBES 49 THRU 56	0.0054	0.0350	0.0262	0.0059	0.0082	0.0058	-0.0001	-0.0001
PROBES 57 THRU 64	0.0002	0.0071	0.0019	0.0001	0.0003	0.0005	0.0048	0.0054
PROBES 65 THRU 72	0.0004	0.0040	0.0002	0.0004	0.0003	0.0004	0.0002	-0.0007
PROBES 73 THRU 80	0.0034	0.0005	-0.0000	0.0009	-0.0001	0.0078	0.0037	0.0067
PROBES 81 THRU 88	0.0010	-0.0002	-0.0002	-0.0004	-0.0001	0.0004	0.0003	0.0000
PROBES 89 THRU 96	0.0002	0.0002	-0.0003	-0.0005	0.0046	-0.0048	-0.0003	0.0058

PROBES 97 THRU 104 0.0059 0.0005 0.0003 0.0000 0.0038 -0.0005 0.0041 0.0031
 PROBES 105 THRU 112 0.0008 0.0003 0.0045 0.0002 0.0001 0.0003 0.0002 0.0008
 PROBES 113 THRU 120 0.0304 -0.0010 -0.0004 -0.0013 0.0003 0.0001 0.0076 0.0047
 PROBES 121 THRU 126 -0.0001 0.0002 -0.0005 0.0004 0.0010 -0.0007

AXIAL POSITION # 27, AXIAL LOCATION = 6.50 INCHES, SALT OBSERVED = 0.0047 G-SALT/LEM-WATER, SALT MISSED = 0.0003 G-SALT/LBM-WATER

PROBES 1 THRU 9	0.0643	0.0413	0.0152	0.0037	0.0003	0.0009	-0.0001	0.0002
PROBES 9 THRU 16	0.0003	0.0001	-0.0000	0.0002	0.0001	0.0002	0.0000	0.0006
PROBES 17 THRU 24	0.0304	0.0005	0.0006	0.0005	0.0005	0.0001	0.0071	0.0065
PROBES 25 THRU 32	0.0310	0.0177	0.0385	0.0059	0.0060	0.0050	0.0002	0.0005
PROBES 33 THRU 40	0.0069	-0.0001	0.0057	0.0061	0.0000	0.0010	0.0003	-0.0005
PROBES 41 THRU 48	0.0310	0.0070	0.0004	-0.0007	0.0009	0.0001	-0.0005	0.0010
PROBES 49 THRU 56	0.0611	0.0524	0.0178	0.0019	0.0071	0.0062	0.0000	-0.0000
PROBES 57 THRU 64	0.0150	0.0109	0.0052	0.0002	0.0005	0.0010	0.0063	0.0071
PROBES 65 THRU 72	0.0004	0.0055	0.0003	0.0007	0.0006	0.0006	0.0002	-0.0007
PROBES 73 THRU 80	0.0365	0.0006	0.0001	0.0012	0.0006	0.0190	0.0447	0.0644
PROBES 81 THRU 88	0.0057	-0.0003	-0.0004	-0.0006	-0.0001	0.0007	0.0006	0.0000
PROBES 89 THRU 96	0.0001	0.0004	-0.0003	-0.0008	0.0064	0.0070	-0.0003	0.0074
PROBES 97 THRU 104	0.0068	0.0007	0.0003	0.0002	0.0060	-0.0005	0.0046	0.0056
PROBES 105 THRU 112	0.0007	0.0004	0.0058	0.0002	-0.0001	0.0005	0.0002	0.0012
PROBES 113 THRU 120	0.0011	-0.0011	-0.0005	-0.0014	0.0004	0.0002	0.0079	0.0057

AXIAL POSITION # 28, AXIAL LOCATION = 6.00 INCHES, SALT OBSERVED = 0.0031 G-SALT/LBM-WATER, SALT MISSED = 0.0019 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0699	0.0307	0.0060	-0.0004	-0.0006	0.0003	-0.0001	0.0003
PROBES 9 THRU 16	0.0279	0.0157	0.0001	-0.0000	-0.0000	-0.0001	-0.0001	0.0004
PROBES 17 THRU 24	0.0002	0.0003	0.0004	0.0002	0.0002	0.0002	0.0025	0.0024
PROBES 25 THRU 32	0.0643	0.0383	0.0148	0.0100	-0.0001	0.0016	0.0001	0.0439
PROBES 33 THRU 40	0.0277	0.0056	0.0050	0.0014	0.0000	0.0004	0.0003	-0.0001
PROBES 41 THRU 48	0.0003	0.0047	0.0002	-0.0003	0.0002	0.0003	-0.0002	0.0004
PROBES 49 THRU 56	0.0046	0.0316	0.0230	0.0052	0.0061	0.0023	0.0002	0.0002
PROBES 57 THRU 64	-0.0005	0.0041	0.0010	0.0002	0.0002	0.0004	0.0024	0.0024
PROBES 65 THRU 72	0.0002	0.0007	0.0004	0.0003	0.0002	0.0002	0.0004	-0.0004
PROBES 73 THRU 80	0.0015	0.0002	0.0001	0.0004	-0.0001	0.0065	0.0018	0.0038
PROBES 81 THRU 88	0.0004	0.0001	0.0009	-0.0000	0.0003	0.0003	0.0003	0.0004
PROBES 89 THRU 96	0.0010	0.0003	-0.0000	-0.0004	-0.0001	0.0020	-0.0002	0.0032

AXIAL POSITION # 29, AXIAL LOCATION = 5.75 INCHES, SALT OBSERVED = 0.0032 G-SALT/LEM-WATER, SALT MISSED = 0.0018 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0668	0.0391	0.0093	-0.0001	-0.0006	0.0003	-0.0001	0.0003
PROBES 9 THRU 16	0.0174	0.0088	-0.0000	-0.0000	-0.0000	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0002	0.0002	0.0003	0.0003	0.0001	0.0001	0.0047	0.0024
PROBES 25 THRU 32	0.0375	0.0211	0.0081	0.0017	0.0000	0.0006	0.0001	0.0138
PROBES 33 THRU 40	0.0133	-0.0002	0.0014	0.0018	0.0000	0.0004	0.0003	-0.0003
PROBES 41 THRU 48	0.0303	0.0033	0.0001	-0.0005	0.0002	0.0002	0.0000	0.0004
PROBES 49 THRU 56	0.0401	0.0491	0.0191	0.0016	0.0025	0.0023	0.0000	-0.0000
PROBES 57 THRU 64	0.0060	0.0073	0.0030	0.0002	0.0002	0.0003	0.0018	0.0024
PROBES 65 THRU 72	0.0001	0.0011	0.0002	0.0003	0.0002	0.0002	0.0003	-0.0006
PROBES 73 THRU 80	0.0202	0.0002	0.0000	0.0004	-0.0001	0.0134	0.0241	0.0355
PROBES 81 THRU 88	0.0030	0.0002	0.0010	0.0006	0.0004	0.0003	0.0002	0.0002
PROBES 89 THRU 96	0.0007	0.0003	-0.0001	-0.0000	0.0020	0.0027	-0.0002	0.0024

AXIAL POSITION # 30, AXIAL LOCATION = 5.50 INCHES, SALT OBSERVED = 0.0030 G-SALT/LBM-WATER, SALT MISSED = 0.0020 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0542	0.0360	0.0114	0.0003	-0.0006	0.0004	-0.0001	0.0002
PROBES 9 THRU 16	0.0001	-0.0000	0.0000	-0.0000	-0.0001	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0001	0.0001	0.0029	0.0037
PROBES 25 THRU 32	0.0258	0.0137	0.0068	0.0017	-0.0000	-0.0005	0.0001	0.0001
PROBES 33 THRU 40	0.0046	-0.0001	0.0010	0.0018	0.0002	0.0004	0.0004	-0.0004

AXIAL POSITION # 31, AXIAL LOCATION = 5.25 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBN-WATER, SALT MISSED = 0.0014 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0602	0.0460	0.0158	0.0005	-0.0004	0.0004	-0.0002	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0001	0.0001	0.0040	0.0040
PROBES 25 THRU 32	0.0194	0.0080	0.0053	0.0014	0.0001	0.0003	0.0001	0.0001
PROBES 33 THRU 40	0.0037	-0.0001	0.0017	0.0036	-0.0000	0.0005	0.0033	-0.0001
PROBES 41 THRU 48	0.0004	0.0030	0.0002	-0.0006	0.0002	0.0001	-0.0002	0.0004
PROBES 49 THRU 56	0.0620	0.0385	0.0107	0.0003	0.0032	0.0009	0.0000	0.0002
PROBES 57 THRU 64	0.0120	0.0077	0.0027	0.0001	0.0002	0.0003	0.0028	0.0034
PROBES 65 THRU 72	0.0001	0.0027	0.0002	0.0003	0.0002	0.0002	0.0002	-0.0004
PROBES 73 THRU 80	0.0395	0.0002	0.0001	0.0005	0.0004	0.0191	0.0524	0.0763
PROBES 81 THRU 88	0.0069	-0.0001	0.0004	-0.0003	0.0001	0.0003	0.0002	0.0002
PROBES 89 THRU 96	0.0007	0.0002	-0.0002	-0.0006	0.0028	0.0035	-0.0003	0.0042
PROBES 97 THRU 104	0.0034	0.0005	0.0001	-0.0001	0.0029	-0.0001	0.0017	0.0018

AXIAL POSITION # 32, AXIAL LOCATION = 5.00 INCHES, SALT OBSERVED = 0.0035 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0585	0.0457	0.0147	0.0006	-0.0004	0.0003	-0.0002	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0000	-0.0001	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	0.0000	0.0036	0.0034
PROBES 25 THRU 32	0.0215	0.0093	0.0066	0.0027	0.0001	0.0006	0.0001	0.0001
PROBES 33 THRU 40	0.0037	-0.0002	0.0024	0.0036	-0.0000	0.0006	0.0003	-0.0004
PROBES 41 THRU 48	0.0004	0.0004	0.0002	-0.0004	0.0002	0.0001	-0.0005	0.0004
PROBES 49 THRU 56	0.0608	0.0535	0.0181	0.0008	0.0039	0.0032	-0.0000	0.0001
PROBES 57 THRU 64	0.0131	0.0096	0.0050	0.0001	0.0002	0.0003	0.0024	0.0037
PROBES 65 THRU 72	0.0002	0.0034	0.0002	0.0003	0.0002	0.0002	0.0002	-0.0004
PROBES 73 THRU 80	0.0337	0.0003	0.0000	0.0005	0.0002	0.0194	0.0456	0.0627
PROBES 81 THRU 88	0.0050	-0.0001	0.0002	0.0001	0.0003	0.0003	0.0003	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0002	-0.0007	0.0024	0.0035	-0.0003	0.0046

AXIAL POSITION # 33, AXIAL LOCATION = 4.75 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBN-WATER, SALT MISSED = 0.0012 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0668	0.0623	0.0217	0.0022	0.0005	0.0004	-0.0002	0.0002
PROBES 9 THRU 16	0.0001	-0.0000	-0.0000	-0.0002	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0000	0.0004	0.0002	0.0001	0.0000	0.0040	0.0043
PROBES 25 THRU 32	0.0074	0.0002	0.0048	0.0033	0.0001	0.0010	0.0001	0.0001
PROBES 33 THRU 40	0.0043	-0.0001	0.0027	0.0044	-0.0000	0.0006	0.0003	-0.0001
PROBES 41 THRU 48	0.0004	0.0036	0.0002	-0.0004	0.0002	0.0001	-0.0003	0.0004
PROBES 49 THRU 56	0.0756	0.0338	0.0075	0.0002	0.0029	0.0018	0.0000	-0.0000
PROBES 57 THRU 64	0.0164	0.0073	0.0020	0.0001	0.0002	0.0003	0.0024	0.0037
PROBES 65 THRU 72	0.0002	0.0034	0.0002	0.0003	0.0002	0.0003	0.0002	-0.0007
PROBES 73 THRU 80	0.0407	0.0004	0.0000	0.0006	0.0008	0.0270	0.0640	0.0910
PROBES 81 THRU 88	0.0073	-0.0002	0.0004	-0.0000	0.0003	0.0003	0.0003	0.0002
PROBES 89 THRU 96	0.0006	0.0002	-0.0002	-0.0007	0.0028	0.0035	-0.0003	0.0049

AXIAL POSITION # 34, AXIAL LOCATION = 4.50 INCHES, SALT OBSERVED = 0.0034 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0288	0.0242	0.0086	0.0010	-0.0005	0.0004	-0.0002	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0002	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0003	0.0001	0.0004	0.0003	0.0001	-0.0000	0.0050	0.0037
PROBES 25 THRU 32	0.0084	0.0058	0.0062	0.0042	-0.0000	0.0019	0.0001	0.0001

PROBES 33 THRU 40 0.0040 -0.0002 0.0030 0.0005 0.0002 0.0002 -0.0002
 PROBES 41 THRU 48 0.0004 0.0049 0.0002 0.0002 0.0001 0.0001 0.0005
 PROBES 49 THRU 56 0.0792 0.0327 0.0120 0.0036 0.0004 -0.0001 0.0000
 PROBES 57 THRU 64 0.0209 0.0087 0.0035 0.0002 0.0004 0.0001 0.0000
 PROBES 65 THRU 72 0.0001 0.0004 0.0002 0.0004 0.0002 0.0002 0.0007
 PROBES 73 THRU 80 0.0463 0.0003 -0.0000 0.0006 0.0007 0.0554 0.0834
 PROBES 81 THRU 88 0.0124 0.0003 -0.0002 0.0001 0.0004 0.0001 0.0001
 PROBES 89 THRU 96 0.0005 0.0002 -0.0001 0.0005 0.0003 0.0004 0.0049

AXIAL POSITION # 35, AXIAL LOCATION = 4.25 INCHES, SALT OBSERVED = 0.0035 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0126 0.0081 0.0013 -0.0004 -0.0002 0.0001 0.0001
 PROBES 9 THRU 16 0.0001 -0.0000 0.0000 -0.0001 -0.0002 0.0001 0.0003
 PROBES 17 THRU 24 0.0003 0.0000 0.0005 0.0001 0.0047 0.0048 0.0003
 PROBES 25 THRU 32 0.0236 0.0159 0.0066 0.0027 0.0001 0.0001 0.0001
 PROBES 33 THRU 40 0.0052 -0.0002 0.0033 0.0036 -0.0001 0.0002 -0.0002
 PROBES 41 THRU 48 0.0004 0.0004 0.0001 0.0006 0.0004 -0.0005 0.0005
 PROBES 49 THRU 56 0.0868 0.0754 0.0276 0.0004 0.0042 0.0036 0.0001
 PROBES 57 THRU 64 0.0291 0.0124 0.0098 0.0001 0.0002 0.0004 0.0046
 PROBES 65 THRU 72 0.0001 0.0002 0.0002 0.0004 0.0003 0.0002 0.0007
 PROBES 73 THRU 80 0.0583 0.0304 -0.0000 0.0005 -0.0000 0.0304 0.0487
 PROBES 81 THRU 88 0.0166 -0.0003 0.0001 0.0003 0.0002 0.0004 0.0000
 PROBES 89 THRU 96 0.0004 0.0002 -0.0000 0.0007 0.0002 0.0004 0.0049

AXIAL POSITION # 36, AXIAL LOCATION = 4.00 INCHES, SALT OBSERVED = 0.0026 G-SALT/LBM-WATER, SALT MISSED = 0.0024 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0273 0.0054 0.0006 -0.0004 -0.0001 0.0001 0.0001
 PROBES 9 THRU 16 0.0001 -0.0000 0.0001 -0.0001 -0.0001 0.0003 0.0003
 PROBES 17 THRU 24 0.0003 0.0000 0.0005 0.0001 0.0047 0.0043 0.0001
 PROBES 25 THRU 32 0.0341 0.0208 0.0074 0.0036 -0.0000 0.0001 0.0001
 PROBES 33 THRU 40 0.0046 -0.0002 0.0027 0.0027 0.0001 0.0002 -0.0002
 PROBES 41 THRU 48 0.0004 0.0036 0.0001 -0.0004 0.0001 -0.0004 0.0005
 PROBES 49 THRU 56 0.0369 0.0908 0.0339 0.0011 0.0045 0.0044 -0.0000
 PROBES 57 THRU 64 0.0112 0.0143 0.0161 0.0001 0.0002 0.0004 0.0049
 PROBES 65 THRU 72 0.0002 0.0046 0.0002 0.0004 0.0002 0.0002 -0.0008
 PROBES 73 THRU 80 0.0229 0.0003 0.0000 0.0005 -0.0002 0.0009 0.0070
 PROBES 81 THRU 88 0.0031 -0.0002 0.0003 -0.0000 0.0003 0.0003 0.0000
 PROBES 89 THRU 96 0.0005 0.0002 -0.0001 0.0005 0.0032 0.0003 0.0049

AXIAL POSITION # 37, AXIAL LOCATION = 3.75 INCHES, SALT OBSERVED = 0.0025 G-SALT/LBM-WATER, SALT MISSED = 0.0025 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0481 0.0070 0.0008 -0.0004 -0.0002 0.0001 0.0001
 PROBES 9 THRU 16 0.0001 0.0000 0.0000 -0.0001 -0.0002 0.0003 0.0003
 PROBES 17 THRU 24 0.0002 0.0001 0.0004 0.0003 0.0001 0.0043 0.0043
 PROBES 25 THRU 32 0.0671 0.0107 0.0571 0.0044 -0.0001 0.0001 0.0001
 PROBES 33 THRU 40 0.0057 -0.0002 0.0033 0.0036 -0.0001 0.0006 0.0003
 PROBES 41 THRU 48 0.0003 0.0054 0.0001 -0.0007 0.0002 -0.0005 0.0007
 PROBES 49 THRU 56 0.0016 0.0061 0.0342 0.0066 0.0051 0.0027 -0.0000
 PROBES 57 THRU 64 -0.0004 0.0112 0.0078 0.0001 0.0002 0.0004 0.0051
 PROBES 65 THRU 72 0.0001 0.0040 0.0002 0.0004 0.0002 -0.0008 0.0008
 PROBES 73 THRU 80 -0.0000 0.0002 0.0000 0.0004 0.0002 0.0004 0.0067
 PROBES 81 THRU 88 0.0003 -0.0001 0.0001 0.0003 0.0002 0.0002 0.0000

AXIAL POSITION # 38, AXIAL LOCATION = 3.50 INCHES, SALT OBSERVED = 0.0026 G-SALT/LBM-WATER, SALT MISSED = 0.0024 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0632 0.0083 0.0009 -0.0004 -0.0002 0.0001 0.0001
 PROBES 9 THRU 16 0.0002 -0.0000 0.0001 -0.0001 -0.0002 0.0003 0.0003
 PROBES 17 THRU 24 0.0002 0.0000 0.0005 0.0003 -0.0001 0.0037 0.0037
 PROBES 25 THRU 32 0.0876 0.0821 0.0117 0.0039 -0.0000 0.0001 0.0001
 PROBES 33 THRU 40 0.0062 -0.0002 0.0030 0.0031 -0.0001 0.0007 -0.0003

AXIAL POSITION # 39, AXIAL LOCATION = 3.25 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER									
PROBES 41 THRU 48	0.0064	0.0063	0.0002	-0.0007	0.0005	0.0001	-0.0005	0.0007	0.0007
PROBES 49 THRU 56	-0.0006	0.0289	0.0260	0.0086	0.0040	0.0040	-0.0001	-0.0001	-0.0001
PROBES 57 THRU 64	-0.0005	0.0039	0.0008	0.0001	0.0002	0.0004	0.0034	0.0051	0.0051
PROBES 65 THRU 72	0.0001	0.0040	0.0002	0.0004	0.0003	0.0004	0.0002	-0.0008	-0.0008
PROBES 73 THRU 80	-0.0000	0.0002	-0.0000	0.0006	-0.0001	0.0004	0.0047	0.0047	0.0047
PROBES 81 THRU 88	-0.0003	-0.0003	0.0001	-0.0000	0.0001	0.0005	0.0002	0.0000	0.0000
PROBES 89 THRU 96	0.0003	0.0002	-0.0002	-0.0007	0.0036	0.0045	-0.0003	0.0058	0.0058

AXIAL POSITION # 39, AXIAL LOCATION = 3.25 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0569	0.0074	0.0007	-0.0004	-0.0005	0.0003	-0.0001	0.0002	0.0002
PROBES 9 THRU 16	0.0002	-0.0000	-0.0001	-0.0001	0.0001	-0.0001	-0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0004	0.0004	0.0003	0.0001	-0.0000	0.0047	0.0043	0.0043
PROBES 25 THRU 32	0.0759	0.0771	0.0120	0.0047	-0.0001	0.0029	0.0001	0.0001	0.0001
PROBES 33 THRU 40	0.0059	-0.0002	0.0030	0.0031	-0.0001	0.0007	0.0002	-0.0003	-0.0003
PROBES 41 THRU 48	0.0004	0.0061	0.0002	-0.0003	0.0002	0.0001	-0.0005	0.0008	0.0008
PROBES 49 THRU 56	-0.0007	0.0264	0.0331	0.0103	0.0042	0.0040	-0.0001	-0.0000	-0.0000
PROBES 57 THRU 64	-0.0004	0.0041	0.0005	0.0001	0.0002	0.0004	0.0034	0.0049	0.0049
PROBES 65 THRU 72	0.0002	0.0046	0.0002	0.0004	0.0003	0.0003	0.0002	-0.0008	-0.0008
PROBES 73 THRU 80	-0.0000	0.0003	-0.0000	0.0005	-0.0001	0.0037	0.0015	0.0004	0.0004
PROBES 81 THRU 88	0.0003	-0.0002	0.0000	0.0001	0.0001	0.0004	0.0002	0.0001	0.0001
PROBES 89 THRU 96	0.0004	0.0002	-0.0001	-0.0006	0.0042	0.0038	-0.0003	0.0055	0.0055

AXIAL POSITION # 40, AXIAL LOCATION = 3.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0026 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0308	0.0054	0.0005	-0.0004	-0.0006	0.0003	-0.0001	0.0002	0.0002
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0002	0.0001	-0.0001	-0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0005	0.0003	0.0001	-0.0000	0.0047	0.0037	0.0037
PROBES 25 THRU 32	0.0539	0.0816	0.0140	0.0059	-0.0001	0.0026	0.0001	0.0001	0.0001
PROBES 33 THRU 40	0.0064	-0.0002	0.0030	0.0055	0.0001	0.0004	0.0002	-0.0002	-0.0002
PROBES 41 THRU 48	0.0004	0.0063	0.0002	-0.0006	0.0004	0.0001	-0.0005	0.0009	0.0009
PROBES 49 THRU 56	-0.0008	0.0197	0.0641	0.0295	0.0059	0.0023	-0.0001	-0.0000	-0.0000
PROBES 57 THRU 64	-0.0004	0.0004	0.0002	0.0004	0.0002	0.0004	0.0034	0.0040	0.0040
PROBES 65 THRU 72	0.0001	0.0037	0.0002	0.0004	0.0002	0.0004	0.0002	-0.0008	-0.0008
PROBES 73 THRU 80	-0.0000	0.0003	0.0000	0.0005	-0.0001	0.0029	0.0004	0.0002	0.0002
PROBES 81 THRU 88	0.0003	-0.0002	0.0004	-0.0000	0.0003	0.0004	0.0002	0.0001	0.0001
PROBES 89 THRU 96	0.0004	0.0002	-0.0001	-0.0006	0.0042	0.0038	-0.0003	0.0055	0.0055

AXIAL POSITION # 41, AXIAL LOCATION = 2.75 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0025 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0723	0.0066	0.0038	-0.0004	-0.0005	0.0004	-0.0001	0.0001	0.0001
PROBES 9 THRU 16	0.0002	-0.0000	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0004	0.0004	0.0003	0.0001	-0.0000	0.0050	0.0031	0.0031
PROBES 25 THRU 32	0.0828	0.0776	0.0123	0.0039	-0.0000	0.0034	0.0001	0.0001	0.0001
PROBES 33 THRU 40	0.0059	-0.0002	0.0027	0.0051	-0.0001	0.0006	0.0002	-0.0003	-0.0003
PROBES 41 THRU 48	0.0003	0.0059	0.0002	-0.0005	0.0004	0.0001	-0.0005	0.0008	0.0008
PROBES 49 THRU 56	-0.0006	0.0289	0.0214	0.0097	0.0039	0.0027	-0.0000	-0.0000	-0.0000
PROBES 57 THRU 64	-0.0004	0.0038	0.0004	0.0002	0.0002	0.0004	0.0031	0.0043	0.0043
PROBES 65 THRU 72	0.0001	0.0040	0.0002	0.0004	0.0002	0.0004	0.0002	-0.0007	-0.0007
PROBES 73 THRU 80	-0.0000	0.0003	0.0000	0.0005	-0.0001	0.0031	0.0004	0.0003	0.0003
PROBES 81 THRU 88	0.0003	-0.0002	0.0004	-0.0000	0.0001	0.0004	0.0002	0.0001	0.0001
PROBES 89 THRU 96	0.0007	0.0002	-0.0001	-0.0007	0.0039	0.0045	-0.0003	0.0046	0.0046

AXIAL POSITION # 42, AXIAL LOCATION = 2.50 INCHES, SALT OBSERVED =0.0022 G-SALT/LBM-WATER, SALT MISSED =0.0028 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0456	0.0061	0.0006	-0.0004	-0.0006	0.0004	-0.0002	0.0001	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0002	-0.0001	-0.0001	-0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0002	0.0002	0.0001	-0.0001	0.0034	0.0034	0.0034
PROBES 25 THRU 32	0.0719	0.1048	0.0130	0.0050	-0.0001	0.0029	0.0001	0.0001	0.0001
PROBES 33 THRU 40	0.0052	-0.0002	0.0030	0.0031	-0.0001	0.0007	0.0003	-0.0003	-0.0003

AXIAL POSITION # 43, AXIAL LOCATION = 2.25 INCHES, SALT OBSERVED = 0.0025 G-SALT/LBM-WATER, SALT MISSED = 0.0025 G-SALT/LBM-WATER

PROBES 41 THRU 48	0.0004	0.0054	0.0002	-0.0003	0.0002	0.0001	-0.0005	0.0006
PROBES 49 THRU 56	-0.0038	0.0151	0.0033	0.0070	0.0045	0.0048	-0.0001	-0.0006
PROBES 57 THRU 64	-0.0004	0.0041	0.0004	0.0001	0.0002	0.0004	0.0034	0.0040
PROBES 65 THRU 72	0.0001	0.0037	0.0002	0.0006	0.0002	0.0003	0.0002	-0.0008
PROBES 73 THRU 80	-0.0001	0.0002	-0.0001	0.0005	-0.0001	0.0034	0.0003	0.0002
PROBES 81 THRU 88	0.0003	-0.0002	0.0002	0.0001	0.0001	0.0004	0.0002	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0001	-0.0006	0.0042	0.0038	-0.0003	0.0052

PROBES 1 THRU 8	0.0695	0.0066	0.0009	-0.0004	-0.0006	0.0004	-0.0002	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0302	0.0004	0.0003	0.0003	0.0001	0.0000	0.0047	0.0043
PROBES 25 THRU 32	0.0965	0.1010	0.0105	0.0052	-0.0001	0.0032	0.0001	0.0002
PROBES 33 THRU 40	0.0052	-0.0002	0.0036	0.0047	-0.0001	0.0005	0.0002	-0.0003
PROBES 41 THRU 48	0.0004	0.0049	0.0022	-0.0006	0.0004	0.0001	-0.0005	0.0006
PROBES 49 THRU 56	-0.0008	0.0174	0.0005	0.0009	0.0051	0.0032	-0.0001	-0.0001
PROBES 57 THRU 64	-0.0005	0.0032	0.0005	0.0001	0.0002	0.0004	0.0034	0.0040
PROBES 65 THRU 72	0.0001	0.0049	0.0002	0.0005	0.0002	0.0004	0.0002	-0.0008
PROBES 73 THRU 80	-0.0000	0.0002	-0.0000	0.0006	-0.0001	0.0037	0.0004	0.0002
PROBES 81 THRU 88	0.0003	-0.0002	0.0003	-0.0000	0.0001	0.0005	0.0003	0.0000
PROBES 89 THRU 96	0.0004	0.0002	-0.0002	-0.0007	0.0039	0.0051	-0.0003	0.0055

AXIAL POSITION # 44, AXIAL LOCATION = 2.00 INCHES, SALT OBSERVED = 0.0022 G-SALT/LBM-WATER, SALT MISSED = 0.0028 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.1029	0.0085	0.0012	-0.0004	-0.0006	0.0005	-0.0001	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0002	-0.0001	-0.0001	-0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0005	0.0003	0.0002	-0.0000	0.0056	0.0040
PROBES 25 THRU 32	0.0970	0.0311	0.0066	0.0042	-0.0000	0.0032	0.0001	0.0001
PROBES 33 THRU 40	0.0043	-0.0002	0.0024	0.0058	-0.0001	0.0007	0.0002	-0.0003
PROBES 41 THRU 48	0.0005	0.0041	0.0002	-0.0005	0.0005	0.0001	-0.0003	0.0006
PROBES 49 THRU 56	-0.0008	0.0202	0.0006	0.0001	0.0036	0.0027	-0.0001	-0.0001
PROBES 57 THRU 64	0.0005	0.0032	0.0005	0.0001	0.0002	0.0004	0.0037	0.0043
PROBES 65 THRU 72	0.0001	0.0043	0.0002	0.0004	0.0002	0.0004	0.0002	-0.0006
PROBES 73 THRU 80	-0.0000	0.0005	0.0000	0.0005	-0.0001	0.0037	0.0004	0.0002
PROBES 81 THRU 88	0.0003	-0.0002	0.0000	0.0001	0.0002	0.0005	0.0002	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0001	-0.0005	0.0036	0.0045	-0.0003	0.0055

AXIAL POSITION # 45, AXIAL LOCATION = 1.75 INCHES, SALT OBSERVED = 0.0019 G-SALT/LBM-WATER, SALT MISSED = 0.0031 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0691	0.0070	0.0009	-0.0004	-0.0006	0.0005	-0.0001	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0003	0.0001	-0.0000	0.0043	0.0037
PROBES 25 THRU 32	0.0381	0.0001	0.0045	0.0042	-0.0000	0.0029	0.0001	0.0001
PROBES 33 THRU 40	0.0028	-0.0002	0.0033	0.0036	-0.0001	0.0004	0.0002	-0.0003
PROBES 41 THRU 48	0.0004	0.0030	0.0001	-0.0006	0.0005	0.0001	-0.0003	0.0004
PROBES 49 THRU 56	0.0026	0.0985	0.0005	0.0001	0.0048	0.0048	-0.0001	-0.0001
PROBES 57 THRU 64	-0.0005	0.0035	0.0005	0.0002	0.0002	0.0004	0.0031	0.0043
PROBES 65 THRU 72	0.0001	0.0037	0.0002	0.0003	0.0002	0.0003	0.0002	-0.0007
PROBES 73 THRU 80	-0.0000	0.0004	0.0000	0.0005	-0.0001	0.0037	0.0004	0.0026
PROBES 81 THRU 88	0.0003	-0.0002	0.0002	0.0001	0.0001	0.0004	0.0002	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0001	-0.0005	0.0036	0.0041	-0.0003	0.0049

AXIAL POSITION # 46, AXIAL LOCATION = 1.50 INCHES, SALT OBSERVED = 0.0015 G-SALT/LBM-WATER, SALT MISSED = 0.0035 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0019	0.0041	0.0004	-0.0004	-0.0004	0.0004	-0.0001	0.0002
PROBES 9 THRU 16	0.0001	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0000	0.0005	0.0003	0.0001	-0.0000	0.0047	0.0043
PROBES 25 THRU 32	0.0017	-0.0002	0.0043	0.0039	-0.0000	0.0019	0.0001	0.0001
PROBES 33 THRU 40	0.0031	-0.0002	0.0027	0.0051	-0.0001	0.0005	0.0002	-0.0002

PROBES 41 THRU 48
 PROBES 49 THRU 56
 PROBES 57 THRU 64
 PROBES 65 THRU 72
 PROBES 73 THRU 80
 PROBES 81 THRU 88
 PROBES 89 THRU 96

AXIAL POSITION # 47, AXIAL LOCATION = 1.25 INCHES, SALT OBSERVED = 0.0015 G-SALT/LBM-WATER, SALT MISSED = 0.0035 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0002	0.0003	0.0001	0.0003	0.0005	-0.0005	0.0003	0.0001	-0.0003	0.0005
PROBES 9 THRU 16	0.0001	0.0006	0.0006	-0.0001	-0.0005	-0.0004	-0.0004	-0.0005	0.0005	-0.0001	0.0001
PROBES 17 THRU 24	0.0002	0.0005	0.0005	0.0003	0.0001	0.0003	0.0003	0.0001	-0.0001	-0.0001	0.0003
PROBES 25 THRU 32	0.0002	0.0002	0.0002	0.0002	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
PROBES 33 THRU 40	0.0004	0.0002	0.0002	0.0002	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
PROBES 41 THRU 48	0.0004	0.0002	0.0002	0.0002	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
PROBES 49 THRU 56	0.0154	0.1237	0.0006	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PROBES 57 THRU 64	-0.0006	0.0028	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
PROBES 65 THRU 72	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
PROBES 73 THRU 80	-0.0000	0.0003	0.0001	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
PROBES 81 THRU 88	0.0003	-0.0001	0.0005	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
PROBES 89 THRU 96	0.0007	0.0002	0.0000	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005

AXIAL POSITION # 48, AXIAL LOCATION = 1.00 INCHES, SALT OBSERVED = 0.0019 G-SALT/LBM-WATER, SALT MISSED = 0.0031 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0033	0.0006	-0.0004	-0.0005	-0.0004	-0.0004	-0.0005	0.0004	-0.0001	0.0001
PROBES 9 THRU 16	0.0001	-0.0000	0.0000	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0002	0.0000	0.0005	0.0003	0.0001	0.0003	0.0003	0.0001	0.0000	0.0040	0.0034
PROBES 25 THRU 32	0.0001	-0.0002	0.0002	0.0001	-0.0002	0.0001	0.0001	-0.0002	0.0019	0.0001	0.0001
PROBES 33 THRU 40	0.0031	-0.0002	0.0033	0.0036	-0.0001	0.0036	0.0036	-0.0001	0.0003	0.0002	-0.0002
PROBES 41 THRU 48	0.0004	0.0027	0.0006	-0.0006	0.0004	0.0006	0.0006	0.0001	0.0001	-0.0003	0.0004
PROBES 49 THRU 56	0.0100	0.2027	0.0006	0.0001	0.0036	0.0001	0.0036	0.0001	0.0040	-0.0001	-0.0000
PROBES 57 THRU 64	-0.0005	0.0038	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0024	0.0040
PROBES 65 THRU 72	0.0002	0.0034	0.0002	0.0002	0.0002	0.0004	0.0004	0.0002	0.0004	0.0002	-0.0007
PROBES 73 THRU 80	-0.0000	0.0004	0.0001	0.0006	-0.0001	0.0006	0.0006	-0.0001	0.0029	0.0004	0.0088
PROBES 81 THRU 88	0.0003	-0.0001	0.0003	-0.0000	0.0003	-0.0000	-0.0000	0.0003	0.0004	0.0002	0.0001
PROBES 89 THRU 96	0.0005	0.0002	-0.0000	-0.0006	0.0036	-0.0006	-0.0006	0.0036	0.0038	-0.0003	0.0042

**THE FOLLOWING PROBES HAVE FAILED AND WERE NOT INCLUDED IN THE MASS BALANCE CALCULATIONS:

**AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:

1	2	3	4
25	26	27	28
73	74	75	76
49	50	51	52

A5.3. Edge Injection Mixing Data (gm/lbm)

Injection Subchannel: 114

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.049 lbm/min

**SALT CONCENTRATIONS FOLLOW:

AXIAL POSITION # 1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED =0.0053 G-SALT/LBM-WATER, SALT MISSED =0.0006 G-SALT/LBM-WATER

PROB'S 1 THRU 8	0.0004	0.0052	0.0009	-0.0004	-0.0006	0.0007	-0.0002	0.0002
PROBES 9 THRU 16	0.0001	-0.0001	-0.0001	-0.0002	-0.0001	-0.0000	-0.0001	0.0007
PROBES 17 THRU 24	0.0005	0.0001	0.0005	0.0004	0.0002	0.0001	0.0076	0.0058
PROBES 25 THRU 32	0.0003	-0.0002	0.0060	0.0057	-0.0001	0.0043	0.0002	0.0002
PROBES 33 THRU 40	0.0062	-0.0002	0.0042	0.0074	-0.0001	0.0007	0.0002	-0.0005
PROBES 41 THRU 48	0.0006	0.0056	0.0002	-0.0007	0.0006	0.0001	0.0005	0.0006
PROBES 49 THRU 56	-0.0006	0.0062	0.0010	0.0002	0.0059	0.0065	-0.0000	-0.0001
PROBES 57 THRU 64	-0.0000	0.0092	0.0016	0.0006	0.0005	0.0012	0.0056	0.0106
PROBES 65 THRU 72	0.0022	0.0083	0.0004	0.0005	0.0052	0.0017	0.0006	-0.0008
PROBES 73 THRU 80	0.0019	0.0030	0.0013	0.0015	0.0002	0.0061	0.0009	0.0004
PROBES 81 THRU 88	0.0013	0.0012	0.0004	0.0016	0.0063	0.0060	0.0040	0.0074
PROBES 89 THRU 96	0.0042	0.0224	0.0185	0.0091	0.0169	0.0177	0.0265	0.0228
PROBES 97 THRU 104	0.0130	0.0006	0.0003	0.0006	0.0048	-0.0003	0.0041	0.0043
PROBES 105 THRU 112	0.0064	0.0003	0.0101	0.0005	-0.0000	0.0015	0.0031	0.0016
PROBES 113 THRU 120	0.0005	-0.0011	0.0026	0.0084	0.0327	0.0472	0.0433	0.0240
PROBES 121 THRU 126	0.0195	0.0041	-0.0007	0.0006	0.0008	0.0117		

AXIAL POSITION # 2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED =0.0046 G-SALT/LBM-WATER, SALT MISSED =0.0012 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0046	0.0008	-0.0004	-0.0006	0.0007	-0.0002	0.0001
PROBES 9 THRU 16	0.0003	-0.0000	-0.0001	-0.0002	-0.0000	0.0001	-0.0001	0.0006
PROBES 17 THRU 24	0.0006	0.0002	0.0006	0.0004	0.0002	0.0001	0.0076	0.0061
PROBES 25 THRU 32	0.0002	-0.0002	0.0055	0.0054	-0.0001	0.0045	0.0002	0.0002
PROBES 33 THRU 40	0.0057	-0.0002	0.0039	0.0061	-0.0001	0.0006	0.0002	-0.0005
PROBES 41 THRU 48	0.0005	0.0054	0.0002	-0.0006	0.0005	0.0001	-0.0005	0.0005
PROBES 49 THRU 56	-0.0008	0.0052	0.0006	0.0001	0.0051	0.0058	-0.0001	-0.0001
PROBES 57 THRU 64	-0.0005	0.0073	0.0010	0.0003	0.0005	0.0010	0.0048	0.0099
PROBES 65 THRU 72	0.0018	0.0077	0.0003	0.0004	0.0059	0.0012	0.0003	-0.0008
PROBES 73 THRU 80	0.0011	0.0009	0.0001	0.0008	-0.0001	0.0055	0.0008	0.0004
PROBES 81 THRU 88	0.0011	0.0001	-0.0002	-0.0003	0.0017	0.0056	0.0026	0.0047
PROBES 89 THRU 96	0.0018	0.0149	0.0110	0.0066	0.0166	0.0160	0.0258	0.0209
PROBES 97 THRU 104	0.0077	0.0005	0.0003	0.0007	0.0046	-0.0004	0.0038	0.0043
PROBES 105 THRU 112	0.0004	0.0003	0.0045	0.0003	-0.0001	0.0005	0.0001	0.0011
PROBES 113 THRU 120	0.0006	-0.0011	0.0034	0.0158	0.0467	0.0521	0.0306	0.0126
PROBES 121 THRU 126	0.0020	0.0020	-0.0007	0.0004	0.0007	0.0192		

AXIAL POSITION # 3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED =0.0040 G-SALT/LBM-WATER, SALT MISSED =0.0018 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0003	0.0017	0.0004	-0.0001	-0.0003	0.0003	-0.0001	0.0003
PROBES 9 THRU 16	0.0001	0.0000	0.0002	0.0001	0.0000	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0001	0.0001	0.0004	0.0002	0.0001	0.0001	0.0043	0.0031
PROBES 25 THRU 32	0.0002	-0.0002	0.0032	0.0014	0.0001	0.0003	0.0001	0.0001

PROBES 33 THRU 40	0.0021	0.0001	0.0010	0.0031	0.0001	0.0024	0.0004	-0.0001
PROBES 41 THRU 48	0.0003	0.0038	0.0001	-0.0005	0.0002	0.0002	0.0001	0.0003
PROBES 49 THRU 56	-0.0006	0.0031	0.0004	0.0001	0.0039	0.0012	0.0000	-0.0001
PROBES 57 THRU 64	-0.0004	0.0004	0.0004	0.0001	0.0002	0.0004	0.0021	0.0073
PROBES 65 THRU 72	0.0006	0.0037	0.0002	0.0003	0.0029	0.0004	0.0002	-0.0005
PROBES 73 THRU 80	0.0001	0.0002	0.0000	0.0005	-0.0001	0.0029	0.0033	0.0301
PROBES 81 THRU 88	0.0003	-0.0003	-0.0003	-0.0006	-0.0001	0.0027	0.0013	0.0025
PROBES 89 THRU 96	0.0002	0.0090	0.0054	0.0051	0.0167	0.0156	0.0236	0.0237
PROBES 97 THRU 104	0.0049	0.0003	0.0000	-0.0001	0.0017	-0.0002	0.0014	0.0311
PROBES 105 THRU 112	0.0002	0.0003	0.0024	0.0002	0.0003	0.0002	0.0000	0.0004
PROBES 113 THRU 120	0.0002	-0.0008	0.0028	0.0250	0.0606	0.0546	0.0219	0.0064
PROBES 121 THRU 126	-0.0001	0.0016	-0.0003	0.0002	0.0002	0.0257		

AXIAL POSITION # 4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0019 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0013	0.0004	-0.0001	-0.0003	0.0003	-0.0001	0.0003
PROBES 9 THRU 16	0.0001	0.0000	0.0002	0.0000	-0.0000	-0.0001	-0.0001	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0002	0.0000	0.0036	0.0024
PROBES 25 THRU 32	0.0001	-0.0001	0.0023	0.0027	0.0001	0.0003	0.0001	0.0001
PROBES 33 THRU 40	0.0028	-0.0002	0.0014	0.0027	0.0001	0.0004	0.0004	-0.0001
PROBES 41 THRU 48	0.0003	0.0038	0.0001	-0.0001	0.0003	0.0002	0.0000	0.0003
PROBES 49 THRU 56	-0.0004	0.0014	0.0004	0.0001	0.0032	0.0013	0.0001	0.0001
PROBES 57 THRU 64	-0.0002	0.0047	0.0003	0.0002	0.0002	0.0004	0.0018	0.0068
PROBES 65 THRU 72	0.0005	0.0027	0.0003	0.0003	0.0052	0.0004	0.0002	-0.0002
PROBES 73 THRU 80	-0.0000	0.0002	0.0001	0.0005	-0.0001	0.0026	0.0004	0.0001
PROBES 81 THRU 88	0.0003	-0.0002	-0.0000	0.0001	0.0003	0.0034	0.0007	0.0010
PROBES 89 THRU 96	0.0001	0.0014	-0.0003	0.0098	0.0187	0.0159	0.0249	0.0169
PROBES 97 THRU 104	0.0038	0.0003	0.0000	-0.0001	0.0020	-0.0001	0.0007	0.0003
PROBES 105 THRU 112	0.0002	0.0003	0.0017	0.0002	0.0002	0.0002	0.0000	0.0004
PROBES 113 THRU 120	0.0003	-0.0009	0.0179	0.0512	0.0723	0.0235	0.0092	0.0014
PROBES 121 THRU 126	0.0001	0.0010	-0.0000	0.0002	0.0002	0.0544		

AXIAL POSITION # 5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0038 G-SALT/LBM-WATER, SALT MISSED = 0.0020 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0010	0.0004	-0.0001	-0.0003	0.0003	-0.0001	0.0003
PROBES 9 THRU 16	0.0001	0.0000	0.0002	0.0001	-0.0000	-0.0001	-0.0001	0.0002
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0001	-0.0000	0.0033	0.0034
PROBES 25 THRU 32	0.0002	-0.0002	0.0026	0.0014	0.0001	0.0013	0.0001	0.0001
PROBES 33 THRU 40	0.0031	-0.0002	0.0010	0.0023	0.0001	0.0003	0.0005	-0.0001
PROBES 41 THRU 48	0.0003	0.0033	0.0002	-0.0003	0.0002	0.0003	-0.0000	0.0003
PROBES 49 THRU 56	-0.0003	0.0034	0.0004	0.0001	0.0025	0.0032	0.0001	0.0001
PROBES 57 THRU 64	-0.0003	0.0035	0.0003	0.0002	0.0002	0.0004	0.0014	0.0073
PROBES 65 THRU 72	0.0006	0.0030	0.0002	0.0003	0.0049	0.0005	0.0002	-0.0005
PROBES 73 THRU 80	-0.0000	0.0001	0.0002	0.0005	0.0000	0.0013	0.0004	0.0002
PROBES 81 THRU 88	0.0003	-0.0002	-0.0000	0.0002	0.0003	0.0027	0.0004	0.0009
PROBES 89 THRU 96	0.0002	0.0008	-0.0003	0.0112	0.0227	0.0163	0.0270	0.0160
PROBES 97 THRU 104	0.0030	0.0004	0.0000	0.0000	0.0020	-0.0001	0.0007	-0.0001
PROBES 105 THRU 112	0.0002	0.0003	0.0017	0.0002	0.0002	0.0002	0.0000	0.0004
PROBES 113 THRU 120	0.0002	-0.0009	0.0149	0.0544	0.0676	0.0167	0.0057	0.0032
PROBES 121 THRU 126	0.0002	0.0006	-0.0002	0.0002	0.0002	0.0591		

AXIAL POSITION # 6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED = 0.0037 G-SALT/LBM-WATER, SALT MISSED = 0.0021 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0010	0.0004	-0.0001	-0.0003	0.0002	-0.0001	0.0003
PROBES 9 THRU 16	0.0001	0.0001	0.0002	0.0001	-0.0000	-0.0001	-0.0001	0.0002
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0001	-0.0000	0.0029	0.0034
PROBES 25 THRU 32	0.0002	-0.0002	0.0026	0.0014	0.0001	0.0013	0.0001	0.0001
PROBES 33 THRU 40	0.0018	-0.0000	0.0020	0.0023	0.0002	0.0003	0.0005	-0.0001
PROBES 41 THRU 48	-0.0003	0.0030	0.0004	-0.0003	0.0002	0.0027	0.0000	0.0003
PROBES 49 THRU 56	-0.0001	0.0028	0.0004	0.0001	0.0025	0.0027	0.0000	-0.0000

PROBES 57 THRU 64 -0.0004 0.0032 0.0002 0.0001 0.0002 0.0004 0.0014 0.0062
 PROBES 65 THRU 72 0.0002 0.0017 0.0003 0.0003 0.0049 0.0004 0.0002 0.0001
 PROBES 73 THRU 80 -0.0000 0.0002 0.0001 0.0004 0.0000 0.0010 0.0004 0.0002
 PROBES 81 THRU 88 0.0003 -0.0002 0.0000 0.0000 0.0003 0.0024 0.0005 0.0007
 PROBES 89 THRU 96 0.0002 0.0008 0.0003 0.0004 0.0001 0.0161 0.0275 0.0173
 PROBES 97 THRU 104 0.0034 0.0004 0.0000 -0.0001 0.0023 -0.0002 0.0010 -0.0005
 PROBES 105 THRU 112 0.0002 0.0003 0.0017 0.0002 0.0004 0.0002 0.0033 0.0003
 PROBES 113 THRU 120 0.0002 -0.0009 0.0117 0.0506 0.0731 0.0176 0.0051 0.0028
 PROBES 121 THRU 126 0.0002 0.0005 -0.0000 0.0002 0.0002 0.0572

AXIAL POSITION # 7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER

PROBES 1 THRU 8 0.0004 0.0010 0.0003 -0.0000 -0.0003 0.0002 -0.0001 0.0003
 PROBES 9 THRU 16 0.0001 0.0001 0.0002 -0.0000 -0.0001 -0.0001 0.0001 0.0002
 PROBES 17 THRU 24 0.0002 0.0001 0.0004 0.0002 0.0002 0.0003 0.0003 0.0028
 PROBES 25 THRU 32 0.0002 -0.0002 0.0000 0.0001 0.0001 0.0010 0.0001 0.0001
 PROBES 33 THRU 40 0.0025 0.0000 0.0010 0.0023 0.0002 0.0003 0.0003 -0.0002
 PROBES 41 THRU 48 0.0003 0.0030 0.0002 0.0002 0.0002 0.0003 0.0000 0.0003
 PROBES 49 THRU 56 -0.0001 0.0004 0.0004 0.0001 0.0025 0.0027 0.0001 0.0001
 PROBES 57 THRU 64 -0.0003 0.0025 0.0004 0.0002 0.0002 0.0003 0.0010 0.0040
 PROBES 65 THRU 72 0.0001 0.0027 0.0002 0.0003 0.0013 0.0002 0.0003 -0.0004
 PROBES 73 THRU 80 -0.0000 0.0001 0.0003 0.0004 0.0001 0.0026 0.0004 0.0002
 PROBES 81 THRU 88 0.0003 0.0001 0.0001 0.0003 0.0003 0.0015 0.0005 0.0005
 PROBES 89 THRU 96 0.0005 0.0007 -0.0003 0.0031 0.0173 0.0153 0.0275 0.0174
 PROBES 97 THRU 104 0.0034 0.0004 0.0000 -0.0001 0.0010 -0.0001 0.0010 -0.0005
 PROBES 105 THRU 112 0.0002 0.0003 0.0014 0.0003 0.0003 0.0002 0.0000 0.0004
 PROBES 113 THRU 120 0.0002 -0.0009 0.0117 0.0590 0.0969 0.0237 0.0057 0.0022
 PROBES 121 THRU 126 0.0003 0.0008 -0.0000 0.0002 0.0002 0.0751

AXIAL POSITION # 8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBN-WATER, SALT MISSED = 0.0023 G-SALT/LBN-WATER

PROBES 1 THRU 8 0.0004 0.0010 0.0002 0.0001 -0.0002 0.0003 -0.0001 0.0003
 PROBES 9 THRU 16 0.0001 0.0000 0.0003 0.0002 -0.0001 -0.0001 0.0001 0.0002
 PROBES 17 THRU 24 0.0002 0.0001 0.0004 0.0002 0.0002 0.0029 0.0029 0.0034
 PROBES 25 THRU 32 0.0002 0.0001 0.0000 0.0017 0.0000 0.0010 0.0001 0.0001
 PROBES 33 THRU 40 0.0018 -0.0000 0.0017 0.0027 0.0001 0.0003 0.0005 0.0001
 PROBES 41 THRU 48 0.0003 0.0023 0.0003 -0.0002 0.0002 0.0002 0.0002 0.0003
 PROBES 49 THRU 56 -0.0002 0.0021 0.0004 0.0002 0.0022 0.0023 0.0000 -0.0000
 PROBES 57 THRU 64 -0.0003 0.0028 0.0002 0.0001 0.0002 0.0003 0.0010 0.0051
 PROBES 65 THRU 72 0.0002 0.0015 0.0003 0.0003 0.0044 0.0004 0.0003 -0.0002
 PROBES 73 THRU 80 -0.0000 0.0001 0.0003 0.0004 0.0001 0.0026 0.0004 0.0002
 PROBES 81 THRU 88 0.0003 -0.0001 0.0000 0.0004 0.0002 0.0029 0.0003 0.0006
 PROBES 89 THRU 96 0.0004 0.0003 0.0002 0.0122 0.0294 0.0166 0.0236 0.0138
 PROBES 97 THRU 104 0.0045 0.0004 0.0000 0.0001 0.0013 -0.0001 0.0007 0.0007
 PROBES 105 THRU 112 0.0002 0.0003 0.0021 0.0003 0.0000 0.0002 0.0001 0.0003
 PROBES 113 THRU 120 0.0002 -0.0009 0.0228 0.0631 0.0527 0.0028 0.0017 0.0018
 PROBES 121 THRU 126 0.0001 0.0006 -0.0003 0.0002 0.0002 0.0679

AXIAL POSITION # 9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED = 0.0035 G-SALT/LBN-WATER, SALT MISSED = 0.0024 G-SALT/LBN-WATER

PROBES 1 THRU 8 0.0004 0.0006 0.0002 0.0001 -0.0002 0.0003 -0.0001 0.0003
 PROBES 9 THRU 16 0.0001 0.0000 0.0002 -0.0000 0.0001 -0.0001 0.0001 0.0002
 PROBES 17 THRU 24 0.0002 0.0001 0.0004 0.0003 0.0001 0.0000 0.0021 0.0028
 PROBES 25 THRU 32 0.0002 -0.0001 0.0013 0.0017 0.0000 0.0010 0.0001 0.0001
 PROBES 33 THRU 40 0.0021 -0.0000 0.0017 0.0027 0.0001 0.0003 0.0005 0.0001
 PROBES 41 THRU 48 0.0003 0.0023 0.0003 0.0002 0.0002 0.0003 0.0002 0.0003
 PROBES 49 THRU 56 -0.0002 0.0021 0.0004 0.0002 0.0022 0.0023 0.0001 0.0002
 PROBES 57 THRU 64 -0.0002 0.0022 0.0004 0.0002 0.0002 0.0024 0.0001 0.0002
 PROBES 65 THRU 72 0.0002 0.0015 0.0004 0.0003 0.0049 0.0024 0.0024 0.0059
 PROBES 73 THRU 80 -0.0000 0.0001 0.0003 0.0003 0.0000 0.0002 0.0002 0.0002

AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED = 0.0031 G-SALT/LBM-WATER, SALT MISSED = 0.0028 G-SALT/LBM-WATER									
PROBES 105 THRU 112	0.0002	0.0003	0.0018	0.0004	0.0003	0.0002	0.0001	0.0003	0.0003
PROBES 113 THRU 120	0.0002	-0.0011	0.0427	0.0734	0.0073	0.0001	0.0009	0.0018	
PROBES 121 THRU 126	0.0003	0.0001	0.0002	0.0002	0.0002			0.0578	
AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED = 0.0031 G-SALT/LBM-WATER, SALT MISSED = 0.0028 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0004	0.0006	0.0002	0.0001	0.0001	0.0002	0.0000	0.0005	
PROBES 9 THRU 16	0.0001	0.0002	0.0003	0.0000	0.0000	-0.0001	-0.0001	0.0002	
PROBES 17 THRU 24	0.0002	0.0000	0.0004	0.0002	0.0002	0.0001	0.0021	0.0014	
PROBES 25 THRU 32	0.0003	-0.0001	0.0023	0.0020	0.0001	0.0019	0.0001	0.0001	
PROBES 33 THRU 40	0.0018	-0.0001	0.0017	0.0014	-0.0000	0.0002	0.0003	-0.0001	
PROBES 41 THRU 48	0.0003	0.0003	0.0002	-0.0002	0.0001	0.0005	-0.0000	0.0003	
PROBES 49 THRU 56	-0.0001	0.0018	0.0003	0.0001	0.0015	0.0009	0.0001	-0.0000	
PROBES 57 THRU 64	-0.0000	0.0001	0.0002	0.0002	0.0002	0.0004	0.0021	0.0040	
PROBES 65 THRU 72	0.0001	0.0030	0.0003	0.0003	0.0052	0.0002	0.0003	-0.0003	
PROBES 73 THRU 80	0.0000	0.0001	0.0001	0.0004	0.0001	0.0016	0.0005	0.0003	
PROBES 81 THRU 88	0.0003	0.0002	0.0003	0.0008	0.0001	0.0018	0.0002	0.0000	
PROBES 89 THRU 96	0.0007	0.0004	0.0002	0.0120	0.0332	0.0148	0.0100	0.0055	
PROBES 97 THRU 104	0.0017	0.0004	0.0000	-0.0001	0.0010	0.0001	-0.0004	-0.0005	
PROBES 105 THRU 112	0.0002	0.0003	0.0014	0.0003	0.0002	0.0002	0.0001	0.0003	
PROBES 113 THRU 120	0.0002	-0.0010	0.0470	0.0782	0.0038	0.0001	0.0017	0.0001	
PROBES 121 THRU 126	0.0003	0.0001	0.0004	0.0002	0.0002	0.0600	0.0011	0.0011	

AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED = 0.0030 G-SALT/LBM-WATER, SALT MISSED = 0.0028 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0004	-0.0001	0.0001	0.0003	-0.0001	0.0002	0.0001	0.0005	
PROBES 9 THRU 16	0.0002	0.0002	0.0003	0.0000	0.0000	-0.0000	0.0000	0.0002	
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0002	0.0001	0.0003	0.0021	
PROBES 25 THRU 32	0.0003	-0.0000	0.0035	0.0007	0.0004	0.0003	0.0001	0.0001	
PROBES 33 THRU 40	0.0025	0.0002	-0.0013	0.0014	-0.0000	0.0002	0.0004	-0.0001	
PROBES 41 THRU 48	0.0003	0.0017	0.0002	-0.0000	0.0001	0.0005	0.0001	0.0003	
PROBES 49 THRU 56	0.0000	0.0010	0.0003	0.0003	0.0015	0.0004	-0.0000	0.0001	
PROBES 57 THRU 64	-0.0000	0.0007	0.0002	0.0003	0.0003	0.0003	-0.0005	0.0028	
PROBES 65 THRU 72	0.0001	0.0015	0.0004	0.0004	0.0017	0.0002	0.0004	-0.0003	
PROBES 73 THRU 80	0.0001	0.0002	0.0001	0.0004	0.0001	0.0016	0.0005	0.0003	
PROBES 81 THRU 88	0.0003	0.0003	-0.0001	0.0008	0.0001	0.0009	0.0002	0.0000	
PROBES 89 THRU 96	0.0009	0.0002	0.0002	0.0058	0.0261	0.0133	0.0077	0.0061	
PROBES 97 THRU 104	0.0026	0.0004	0.0000	-0.0001	0.0010	0.0001	-0.0004	0.0018	
PROBES 105 THRU 112	0.0002	0.0003	0.0014	0.0003	0.0002	0.0002	0.0001	0.0003	
PROBES 113 THRU 120	0.0002	-0.0011	0.0430	0.0858	0.0041	0.0001	0.0013	0.0018	
PROBES 121 THRU 126	0.0004	0.0001	0.0002	0.0002	0.0002	0.0661	0.0013	0.0018	

AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED = 0.0033 G-SALT/LBM-WATER, SALT MISSED = 0.0026 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0004	-0.0009	0.0000	0.0002	-0.0000	0.0002	0.0001	0.0005	
PROBES 9 THRU 16	0.0002	0.0002	0.0005	0.0005	0.0000	-0.0000	0.0001	0.0002	
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0002	0.0001	0.0004	0.0014	
PROBES 25 THRU 32	0.0004	-0.0000	0.0035	0.0007	0.0004	-0.0005	0.0002	0.0002	
PROBES 33 THRU 40	0.0014	-0.0001	0.0010	0.0014	-0.0000	0.0002	0.0007	-0.0002	
PROBES 41 THRU 48	0.0003	0.0020	0.0002	0.0001	0.0001	0.0005	0.0001	0.0003	
PROBES 49 THRU 56	0.0003	0.0014	0.0004	0.0002	0.0018	0.0004	-0.0000	0.0002	
PROBES 57 THRU 64	0.0002	0.0003	0.0001	0.0004	0.0003	0.0003	-0.0005	0.0021	
PROBES 65 THRU 72	0.0002	0.0019	0.0005	0.0003	0.0003	0.0003	0.0003	-0.0001	
PROBES 73 THRU 80	0.0001	0.0001	0.0002	0.0004	0.0002	0.0010	0.0005	0.0003	
PROBES 81 THRU 88	0.0003	0.0003	-0.0000	0.0009	0.0005	0.0004	0.0002	0.0000	
PROBES 89 THRU 96	0.0011	0.0003	0.0003	0.0011	0.0233	0.0134	0.0104	0.0052	
PROBES 97 THRU 104	0.0026	0.0003	0.0000	-0.0001	0.0017	0.0002	-0.0001	-0.0001	
PROBES 105 THRU 112	0.0002	0.0003	0.0017	0.0004	0.0005	0.0002	0.0001	0.0003	
PROBES 113 THRU 120	0.0002	-0.0007	0.0457	0.0999	0.0038	0.0001	0.0013	0.0003	
PROBES 121 THRU 126	0.0004	0.0000	0.0003	0.0002	0.0002	0.0727	0.0013	0.0018	

AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED = 0.0028 G-SALT/LBM-WATER, SALT MISSED = 0.0031 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	0.0006	0.0001	-0.0000	0.0002	0.0001	0.0005
PROBES 9 THRU 16	0.0002	0.0002	0.0005	0.0001	-0.0000	-0.0001	0.0002
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0001	0.0040	0.0018
PROBES 25 THRU 32	0.0003	-0.0000	0.0035	0.0007	-0.0005	0.0002	0.0002
PROBES 33 THRU 40	0.0014	-0.0000	0.0006	0.0009	0.0001	0.0005	0.0005
PROBES 41 THRU 48	0.0003	0.0020	0.0001	0.0001	0.0003	0.0001	0.0003
PROBES 49 THRU 56	-0.0001	0.0010	0.0004	0.0002	0.0004	0.0000	0.0002
PROBES 57 THRU 64	0.0002	0.0018	0.0003	0.0003	0.0003	0.0007	0.0028
PROBES 65 THRU 72	0.0002	0.0019	0.0005	0.0003	0.0139	0.0003	-0.0003
PROBES 73 THRU 80	0.0001	0.0001	0.0002	0.0004	0.0002	0.0010	0.0005
PROBES 81 THRU 88	0.0003	0.0003	-0.0000	0.0008	0.0001	0.0008	0.0001
PROBES 89 THRU 96	0.0011	0.0002	-0.0001	0.0077	0.0308	-0.0000	0.0024
PROBES 97 THRU 104	0.0017	0.0004	0.0001	-0.0000	0.0003	-0.0001	-0.0001
PROBES 105 THRU 112	0.0002	0.0004	0.0017	0.0004	-0.0005	0.0002	0.0003
PROBES 113 THRU 120	0.0002	-0.0007	0.0791	0.0446	0.0003	0.0001	0.0018
PROBES 121 THRU 126	0.0004	-0.0000	0.0001	0.0002	0.0002	0.0009	

AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED = 0.0023 G-SALT/LBM-WATER, SALT MISSED = 0.0036 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0020	0.0000	0.0003	-0.0000	0.0002	0.0005
PROBES 9 THRU 16	0.0002	0.0001	0.0005	0.0005	0.0001	0.0002	0.0002
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0003	0.0001	0.0010
PROBES 25 THRU 32	0.0003	0.0001	0.0029	0.0010	0.0002	0.0006	0.0002
PROBES 33 THRU 40	0.0021	-0.0000	0.0006	0.0009	0.0001	0.0003	0.0005
PROBES 41 THRU 48	0.0003	0.0020	0.0002	0.0001	0.0001	0.0005	0.0003
PROBES 49 THRU 56	-0.0001	0.0010	0.0004	0.0002	-0.0007	0.0003	0.0003
PROBES 57 THRU 64	0.0001	0.0011	0.0002	0.0003	0.0003	0.0007	0.0021
PROBES 65 THRU 72	0.0001	0.0015	0.0005	0.0003	0.0061	0.0003	-0.0002
PROBES 73 THRU 80	0.0001	0.0001	0.0002	0.0004	0.0002	0.0010	0.0003
PROBES 81 THRU 88	0.0003	0.0003	-0.0001	0.0008	0.0001	0.0007	0.0001
PROBES 89 THRU 96	0.0011	0.0002	0.0011	0.0058	0.0235	0.0107	0.0032
PROBES 97 THRU 104	0.0017	0.0004	0.0001	-0.0001	0.0006	0.0002	-0.0001
PROBES 105 THRU 112	0.0002	0.0004	0.0017	0.0004	0.0007	0.0002	0.0001
PROBES 113 THRU 120	0.0002	-0.0007	0.0643	0.0384	0.0003	0.0001	0.0003
PROBES 121 THRU 126	0.0004	0.0000	0.0005	0.0002	0.0002	0.0001	0.0018

AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED = 0.0025 G-SALT/LBM-WATER, SALT MISSED = 0.0034 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0020	0.0000	-0.0001	0.0002	0.0002	0.0005
PROBES 9 THRU 16	0.0002	0.0001	0.0006	0.0005	0.0001	0.0000	0.0002
PROBES 17 THRU 24	0.0002	0.0000	0.0004	0.0002	0.0002	0.0031	0.0002
PROBES 25 THRU 32	0.0002	0.0000	0.0029	0.0010	0.0002	0.0016	0.0014
PROBES 33 THRU 40	0.0021	-0.0000	0.0006	0.0009	0.0001	0.0002	0.0002
PROBES 41 THRU 48	0.0003	0.0013	0.0002	0.0003	0.0001	0.0004	-0.0001
PROBES 49 THRU 56	-0.0001	0.0003	0.0004	0.0003	0.0003	0.0000	0.0003
PROBES 57 THRU 64	0.0001	0.0007	0.0003	0.0002	-0.0001	0.0000	0.0002
PROBES 65 THRU 72	0.0001	0.0007	0.0006	0.0003	0.0002	0.0004	0.0024
PROBES 73 THRU 80	0.0002	0.0001	0.0001	0.0004	0.0096	0.0002	-0.0000
PROBES 81 THRU 88	0.0004	0.0004	-0.0000	0.0008	0.0001	0.0010	0.0003
PROBES 89 THRU 96	0.0011	0.0002	0.0000	0.0024	0.0198	0.0004	0.0002
PROBES 97 THRU 104	0.0017	0.0004	0.0001	-0.0000	0.0198	-0.0003	0.0028
PROBES 105 THRU 112	0.0002	0.0005	0.0017	0.0004	0.0013	0.0003	-0.0009
PROBES 113 THRU 120	0.0002	0.0002	0.0782	0.0344	0.0007	0.0002	0.0003
PROBES 121 THRU 126	0.0004	0.0000	0.0065	0.0002	0.0003	0.0001	0.0011

AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED = 0.0027 G-SALT/LBM-WATER, SALT MISSED = 0.0031 G-SALT/LBM-WATER

PROBS	1 THRU	8	0.0004	0.0020	0.0000	-0.0001	-0.0001	0.0002	0.0003	0.0003	0.0003
PROBS	9 THRU	16	0.0002	0.0001	0.0004	0.0004	0.0004	-0.0000	0.0001	0.0001	0.0002
PROBS	17 THRU	24	0.0002	0.0001	0.0004	0.0002	0.0002	0.0001	0.0003	0.0003	0.0014
PROBS	25 THRU	32	0.0002	0.0000	0.0004	0.0002	0.0002	0.0016	0.0002	0.0002	0.0002
PROBS	33 THRU	40	0.0002	-0.0000	0.0006	0.0009	0.0002	0.0003	0.0004	0.0004	-0.0001
PROBS	41 THRU	48	0.0003	0.0013	0.0002	0.0003	0.0003	0.0004	0.0004	0.0003	0.0003
PROBS	49 THRU	56	-0.0001	0.0007	0.0004	0.0003	0.0003	-0.0001	0.0000	0.0002	0.0002
PROBS	57 THRU	64	0.0001	0.0003	0.0004	0.0002	0.0002	0.0004	0.0003	0.0003	0.0024
PROBS	65 THRU	72	0.0001	0.0019	0.0005	0.0003	0.0003	0.0002	0.0004	0.0004	-0.0000
PROBS	73 THRU	80	-0.0000	0.0001	0.0003	0.0004	0.0004	0.0002	0.0003	0.0003	0.0003
PROBS	81 THRU	88	0.0004	0.0004	0.0000	0.0009	0.0005	0.0003	0.0003	0.0003	0.0003
PROBS	89 THRU	96	0.0008	0.0002	0.0002	0.0023	0.0203	0.0084	-0.0003	0.0003	0.0020
PROBS	97 THRU	104	0.0017	0.0004	0.0001	-0.0000	0.0006	0.0002	-0.0008	0.0008	-0.0005
PROBS	105 THRU	112	0.0002	0.0004	0.0010	0.0004	0.0006	0.0002	0.0002	0.0002	0.0002
PROBS	113 THRU	120	0.0002	-0.0006	0.0037	0.0423	0.0003	0.0001	0.0017	0.0001	0.0014
PROBS	121 THRU	126	0.0002	-0.0000	0.0002	0.0002	0.0002	-0.0001	0.0001	0.0001	0.0014

AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED =0.0026 G-SALT/LBM-WATER, SALT MISSED =0.0033 G-SALT/LBM-WATER

PROBS	1 THRU	8	0.0004	0.0020	0.0002	-0.0001	-0.0001	0.0002	0.0001	0.0001	0.0005
PROBS	9 THRU	16	0.0003	0.0003	0.0004	0.0004	0.0004	0.0002	0.0001	0.0001	0.0002
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0002	0.0001	0.0003	0.0003	0.0007
PROBS	25 THRU	32	0.0003	0.0000	0.0006	0.0014	0.0001	0.0010	0.0002	0.0002	0.0002
PROBS	33 THRU	40	0.0021	-0.0000	0.0026	0.0009	0.0002	0.0003	0.0004	0.0004	-0.0001
PROBS	41 THRU	48	0.0003	0.0013	0.0002	0.0003	0.0001	0.0004	0.0000	0.0000	0.0003
PROBS	49 THRU	56	-0.0003	0.0007	0.0004	0.0003	0.0003	-0.0001	0.0001	0.0001	0.0002
PROBS	57 THRU	64	0.0001	0.0003	0.0003	0.0002	0.0002	0.0004	0.0003	0.0003	0.0021
PROBS	65 THRU	72	0.0001	0.0015	0.0006	0.0003	0.0057	0.0003	0.0004	0.0004	-0.0000
PROBS	73 THRU	80	-0.0000	0.0001	0.0001	0.0004	0.0002	0.0013	0.0003	0.0003	0.0003
PROBS	81 THRU	88	0.0004	0.0004	0.0001	0.0011	0.0007	0.0003	0.0003	0.0003	0.0002
PROBS	89 THRU	96	0.0013	0.0005	-0.0001	0.0005	0.0190	0.0078	-0.0003	0.0024	0.0024
PROBS	97 THRU	104	0.0008	0.0003	0.0001	-0.0000	0.0006	0.0002	-0.0008	0.0005	-0.0005
PROBS	105 THRU	112	0.0002	0.0004	0.0010	0.0004	0.0005	0.0002	0.0001	0.0001	0.0003
PROBS	113 THRU	120	0.0002	-0.0008	0.0857	0.0426	0.0005	0.0002	0.0001	0.0017	0.0011
PROBS	121 THRU	126	0.0004	-0.0000	0.0008	0.0002	0.0002	0.0001	0.0001	0.0017	0.0011

AXIAL POSITION # 21, AXIAL LOCATION = 9.50 INCHES, SALT OBSERVED =0.0025 G-SALT/LBM-WATER, SALT MISSED =0.0034 G-SALT/LBM-WATER

PROBS	1 THRU	8	0.0004	0.0017	0.0000	0.0003	0.0003	0.0003	0.0002	0.0002	0.0005
PROBS	9 THRU	16	0.0003	0.0003	0.0004	0.0004	0.0004	0.0002	0.0001	0.0001	0.0002
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0002	0.0001	0.0003	0.0003	0.0007
PROBS	25 THRU	32	0.0003	0.0000	0.0026	0.0014	0.0001	0.0010	0.0001	0.0001	0.0001
PROBS	33 THRU	40	0.0014	0.0001	0.0003	0.0009	0.0002	0.0003	0.0004	0.0004	0.0000
PROBS	41 THRU	48	0.0003	0.0013	0.0002	0.0002	0.0001	0.0005	0.0001	0.0003	0.0000
PROBS	49 THRU	56	-0.0002	0.0007	0.0004	0.0003	-0.0001	0.0004	0.0001	0.0001	0.0002
PROBS	57 THRU	64	0.0001	-0.0001	0.0002	0.0003	0.0002	0.0003	0.0007	0.0018	0.0018
PROBS	65 THRU	72	0.0002	0.0019	0.0005	0.0003	0.0022	0.0002	-0.0001	-0.0001	-0.0001
PROBS	73 THRU	80	-0.0000	0.0001	0.0004	0.0003	0.0002	0.0006	0.0004	0.0003	0.0003
PROBS	81 THRU	88	0.0004	0.0003	-0.0000	0.0009	0.0006	0.0010	0.0003	0.0000	0.0000
PROBS	89 THRU	96	0.0010	0.0003	0.0002	0.0122	0.0439	0.0146	0.0012	0.0028	0.0028
PROBS	97 THRU	104	0.0022	0.0003	0.0001	-0.0000	0.0003	0.0002	-0.0008	0.0002	-0.0013
PROBS	105 THRU	112	0.0002	0.0004	0.0010	0.0004	0.0006	0.0002	0.0001	0.0002	0.0002
PROBS	113 THRU	120	0.0002	-0.0009	0.0482	0.0584	0.0003	0.0001	0.0013	0.0001	0.0001
PROBS	121 THRU	126	0.0004	-0.0000	0.0005	0.0002	0.0002	0.0035	0.0013	0.0011	0.0011

AXIAL POSITION # 22, AXIAL LOCATION = 8.50 INCHES, SALT OBSERVED =0.0027 G-SALT/LBM-WATER, SALT MISSED =0.0032 G-SALT/LBM-WATER

PROBS	1 THRU	8	0.0005	-0.0005	0.0001	0.0004	0.0001	0.0002	0.0001	0.0001	0.0002
PROBS	9 THRU	16	0.0002	0.0003	0.0003	0.0001	0.0002	0.0003	0.0002	0.0002	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0002	0.0001	0.0021	0.0021	0.0007

AXIAL POSITION # 23, AXIAL LOCATION = 8.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LBM-WATER, SALT MISSED =0.0035 G-SALT/LBM-WATER											
PROBES 25 THRU 32	0.0004	0.0001	0.0032	0.0007	0.0004	-0.0008	0.0002	0.0001			
PROBES 33 THRU 40	0.0011	0.0000	0.0006	0.0014	0.0001	0.0002	0.0005	-0.0001			
PROBES 41 THRU 48	0.0033	0.0006	0.0032	-0.0000	0.0000	0.0032	0.0001	0.0003			
PROBES 49 THRU 56	-0.0002	-0.0001	0.0004	0.0002	0.0007	0.0009	0.0002	0.0005			
PROBES 57 THRU 64	0.0002	0.0007	0.0003	0.0003	0.0003	0.0003	-0.0005	0.0010			
PROBES 65 THRU 72	0.0002	0.0011	0.0005	0.0003	0.0057	0.0002	0.0033	-0.0000			
PROBES 73 THRU 80	-0.0000	0.0001	0.0004	0.0004	0.0002	0.0006	0.0004	0.0004			
PROBES 81 THRU 88	0.0004	0.0004	0.0001	0.0012	0.0007	0.0003	0.0004	0.0004			
PROBES 89 THRU 96	0.0010	0.0003	-0.0000	0.0014	0.0244	0.0070	0.0001	0.0008			
PROBES 97 THRU 104	0.0004	0.0003	0.0000	0.0000	0.0003	0.0004	-0.0004	0.0007			
PROBES 105 THRU 112	0.0002	0.0004	0.0007	0.0003	0.0003	0.0002	0.0000	0.0003			
PROBES 113 THRU 120	0.0002	-0.0010	0.1210	0.0160	0.0003	0.0001	0.0013	0.0007			
PROBES 121 THRU 126	0.0003	0.0000	0.0001	0.0002	0.0002	-0.0006					

AXIAL POSITION # 24, AXIAL LOCATION = 7.50 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER											
PROBES 1 THRU 8	0.0005	-0.0005	0.0001	0.0004	0.0001	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002
PROBES 9 THRU 16	0.0002	0.0003	0.0003	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0007	0.0007
PROBES 25 THRU 32	0.0004	0.0001	0.0032	0.0007	0.0006	-0.0008	0.0002	0.0002	0.0002	0.0001	0.0001
PROBES 33 THRU 40	0.0011	0.0000	0.0006	0.0014	0.0001	0.0002	0.0002	0.0005	0.0005	-0.0001	-0.0001
PROBES 41 THRU 48	0.0003	0.0006	0.0002	0.0003	0.0001	0.0005	0.0001	0.0001	0.0001	0.0003	0.0003
PROBES 49 THRU 56	-0.0001	0.0007	0.0003	0.0002	0.0007	0.0009	0.0002	0.0002	0.0002	0.0005	0.0005
PROBES 57 THRU 64	0.0002	0.0007	0.0003	0.0003	0.0003	0.0003	0.0003	-0.0013	0.0010	0.0010	0.0010
PROBES 65 THRU 72	0.0002	0.0015	0.0004	0.0003	0.0254	0.0003	0.0004	0.0004	-0.0000	-0.0000	-0.0000
PROBES 73 THRU 80	-0.0000	0.0001	0.0004	0.0004	0.0002	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0004	-0.0001	0.0009	0.0006	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004
PROBES 89 THRU 96	0.0310	0.0003	-0.0000	0.0038	0.0185	0.0048	0.0048	0.0002	0.0012	0.0012	0.0012
PROBES 97 THRU 104	0.0013	0.0003	0.0001	-0.0000	-0.0001	0.0002	0.0002	-0.0008	-0.0013	-0.0013	-0.0013
PROBES 105 THRU 112	0.0002	0.0004	0.0010	0.0004	0.0006	0.0002	0.0002	0.0001	0.0003	0.0003	0.0003
PROBES 113 THRU 120	0.0002	0.0002	0.1103	-0.0005	0.0003	0.0001	0.0021	0.0001	0.0021	0.0021	0.0014
PROBES 121 THRU 126	0.0003	-0.0000	0.0003	0.0002	0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002

AXIAL POSITION # 24, AXIAL LOCATION = 7.50 INCHES, SALT OBSERVED =0.0020 G-SALT/LBM-WATER, SALT MISSED =0.0039 G-SALT/LBM-WATER									
PROBES 1 THRU 8	0.0005	-0.0009	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003	
PROBES 9 THRU 16	0.0003	0.0003	0.0003	0.0001	0.0002	0.0003	0.0002	0.0003	
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	
PROBES 25 THRU 32	0.0004	0.0001	0.0020	0.0007	0.0004	-0.0008	0.0001	0.0001	
PROBES 33 THRU 40	0.0011	0.0000	0.0006	0.0014	0.0001	0.0002	0.0009	0.0000	
PROBES 41 THRU 48	0.0003	0.0003	0.0002	-0.0000	0.0001	0.0007	0.0002	0.0003	
PROBES 49 THRU 56	0.0003	0.0003	0.0004	0.0002	0.0007	0.0004	0.0001	0.0002	
PROBES 57 THRU 64	0.0002	0.0007	0.0002	0.0004	0.0002	0.0003	0.0007	0.0007	
PROBES 65 THRU 72	0.0002	0.0015	0.0006	0.0003	0.0214	0.0002	0.0005	0.0001	
PROBES 73 THRU 80	-0.0000	0.0001	0.0004	0.0004	0.0002	0.0006	0.0004	0.0004	
PROBES 81 THRU 88	0.0003	0.0004	0.0001	0.0008	0.0002	0.0003	0.0004	0.0004	
PROBES 89 THRU 96	0.0010	0.0003	-0.0000	0.0018	0.0152	0.0035	0.0002	0.0004	
PROBES 97 THRU 104	0.0004	0.0003	0.0001	-0.0000	-0.0005	0.0002	0.0018	0.0011	
PROBES 105 THRU 112	0.0002	0.0004	0.0007	0.0003	0.0003	0.0002	0.0000	0.0003	
PROBES 113 THRU 120	0.0002	0.0002	0.0890	-0.0014	0.0003	0.0001	0.0001	0.0007	
PROBES 121 THRU 126	0.0004	0.0001	0.0001	0.0002	0.0002	-0.0002	0.0013	0.0007	

AXIAL POSITION # 25, AXIAL LOCATION = 7.00 INCHES, SALT OBSERVED =0.0019 G-SALT/LBM-WATER, SALT MISSED =0.0040 G-SALT/LBM-WATER								
PROBES 1 THRU 8	0.0005	0.0017	0.0000	0.0004	0.0001	0.0002	0.0003	0.0003
PROBES 9 THRU 16	0.0003	0.0003	0.0003	0.0001	0.0001	0.0004	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0002	0.0003	0.0003
PROBES 25 THRU 32	0.0004	0.0001	0.0023	-0.0001	0.0001	0.0003	0.0001	0.0001
PROBES 33 THRU 40	0.0014	0.0001	0.0003	0.0004	0.0002	0.0002	0.0005	-0.0001
PROBES 41 THRU 48	0.0003	0.0003	0.0003	-0.0000	0.0001	0.0005	0.0003	0.0003

PROBS	49 THRU	56	0.0003	0.0003	0.0004	0.0003	0.0011	-0.0007	0.0005	0.0002
PROBS	57 THRU	64	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0007	0.0003
PROBS	65 THRU	72	0.0002	0.0003	0.0005	0.0003	0.0006	0.0003	0.0003	0.0001
PROBS	73 THRU	80	0.0000	0.0001	0.0002	0.0004	0.0003	0.0010	0.0004	0.0003
PROBS	81 THRU	88	0.0004	0.0004	0.0000	0.0009	0.0006	0.0003	0.0003	0.0003
PROBS	99 THRU	96	0.0009	0.0003	0.0005	-0.0009	0.0120	0.0031	0.0002	0.0004
PROBS	97 THRU	104	0.0004	0.0003	0.0001	0.0000	-0.0001	0.0003	0.0007	0.0003
PROBS	105 THRU	112	0.0002	0.0005	0.0007	0.0003	0.0003	0.0002	0.0000	0.0003
PROBS	113 THRU	120	0.0002	0.0004	0.0879	-0.0014	0.0003	0.0001	0.0013	0.0007
PROBS	121 THRU	126	0.0004	0.0001	0.0003	0.0002	0.0002	-0.0001		

AXIAL POSITION # 26, AXIAL LOCATION = 6.50 INCHES, SALT OBSERVED =0.0020 G-SALT/LBN-WATER, SALT MISSED =0.0039 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0005	-0.0013	0.0000	0.0001	-0.0000	0.0003	0.0003	0.0003
PROBS	9 THRU	16	0.0004	0.0003	0.0003	0.0002	0.0001	0.0003	0.0002	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0003	-0.0001	0.0010
PROBS	25 THRU	32	0.0004	0.0002	0.0026	0.0007	0.0004	-0.0008	0.0002	0.0001
PROBS	33 THRU	40	0.0011	0.0000	0.0006	0.0014	0.0001	0.0002	0.0009	0.0000
PROBS	41 THRU	48	0.0003	0.0003	0.0002	-0.0000	0.0001	0.0007	0.0002	0.0003
PROBS	49 THRU	56	0.0003	0.0003	0.0004	0.0002	0.0007	0.0009	0.0002	0.0003
PROBS	57 THRU	64	0.0002	0.0007	0.0002	0.0004	0.0002	0.0003	0.0007	0.0003
PROBS	65 THRU	72	0.0002	0.0007	0.0005	0.0003	0.0003	0.0002	0.0003	-0.0000
PROBS	73 THRU	80	-0.0000	0.0001	0.0004	0.0004	0.0002	0.0006	0.0004	0.0004
PROBS	81 THRU	88	0.0003	0.0004	0.0001	0.0012	0.0007	0.0003	0.0003	0.0003
PROBS	89 THRU	96	0.0010	0.0003	-0.0000	-0.0009	0.0111	0.0027	0.0001	0.0004
PROBS	97 THRU	104	0.0004	0.0003	0.0001	-0.0000	0.0006	0.0001	-0.0004	0.0007
PROBS	105 THRU	112	0.0002	0.0004	0.0007	0.0003	0.0004	0.0002	0.0001	0.0002
PROBS	113 THRU	120	0.0002	0.0037	0.0995	-0.0013	0.0003	0.0001	0.0004	0.0014
PROBS	121 THRU	126	0.0003	0.0000	0.0001	0.0002	0.0002	0.0000		

AXIAL POSITION # 27, AXIAL LOCATION = 6.00 INCHES, SALT OBSERVED =0.0019 G-SALT/LBN-WATER, SALT MISSED =0.0039 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0005	0.0013	0.0000	0.0001	-0.0000	0.0003	0.0003	0.0003
PROBS	9 THRU	16	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0003	0.0003	0.0004	0.0003
PROBS	25 THRU	32	0.0004	0.0001	0.0023	-0.0001	0.0005	-0.0005	0.0002	0.0002
PROBS	33 THRU	40	0.0011	0.0000	0.0003	0.0004	0.0001	0.0002	0.0009	0.0000
PROBS	41 THRU	48	0.0003	0.0003	0.0002	-0.0000	0.0001	0.0007	0.0003	0.0003
PROBS	49 THRU	56	0.0003	0.0003	0.0004	0.0002	0.0007	0.0004	0.0001	0.0002
PROBS	57 THRU	64	0.0002	0.0007	0.0002	0.0004	0.0002	0.0003	0.0007	-0.0001
PROBS	65 THRU	72	0.0002	0.0007	0.0006	0.0003	0.0003	0.0003	0.0005	0.0001
PROBS	73 THRU	80	0.0000	0.0001	0.0002	0.0004	0.0003	0.0003	0.0005	0.0003
PROBS	81 THRU	88	0.0004	0.0003	0.0000	0.0011	0.0008	0.0003	0.0004	0.0003
PROBS	89 THRU	96	0.0009	0.0003	0.0001	-0.0008	0.0121	0.0031	0.0002	0.0008
PROBS	97 THRU	104	-0.0006	0.0003	0.0001	0.0001	-0.0001	0.0003	0.0007	0.0003
PROBS	105 THRU	112	0.0002	0.0005	0.0007	0.0003	0.0003	0.0002	0.0001	0.0003
PROBS	113 THRU	120	0.0003	-0.0000	0.0995	-0.0012	0.0003	0.0002	0.0008	0.0007
PROBS	121 THRU	126	0.0005	0.0001	0.0002	0.0002	0.0002	-0.0002		

AXIAL POSITION # 28, AXIAL LOCATION = 5.75 INCHES, SALT OBSERVED =0.0020 G-SALT/LBN-WATER, SALT MISSED =0.0039 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0005	0.0013	0.0001	0.0003	0.0002	0.0003	0.0004	0.0003
PROBS	9 THRU	16	0.0003	0.0002	0.0003	0.0002	0.0002	0.0003	0.0002	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0002	0.0017	0.0003
PROBS	25 THRU	32	0.0003	0.0001	0.0023	-0.0001	0.0001	-0.0001	0.0003	0.0001
PROBS	33 THRU	40	0.0007	0.0002	-0.0017	0.0004	0.0002	0.0002	0.0010	0.0001
PROBS	41 THRU	48	0.0003	0.0006	0.0003	0.0004	0.0001	0.0003	0.0003	0.0003
PROBS	49 THRU	56	-0.0001	0.0007	0.0004	0.0002	0.0007	-0.0007	0.0005	0.0002
PROBS	57 THRU	64	0.0005	0.0011	0.0002	0.0005	0.0002	0.0003	-0.0005	-0.0001
PROBS	65 THRU	72	0.0002	0.0015	0.0006	0.0004	0.0004	0.0004	0.0003	0.0003

PROBES 73 THRU 80	0.0001	0.0003	0.0003	0.0005	0.0003	0.0004	0.0005
PROBES 81 THRU 88	0.0004	0.0003	0.0014	0.0006	0.0003	0.0003	0.0003
PROBES 89 THRU 96	0.0010	0.0003	-0.0002	0.0193	0.0034	0.0031	-0.0001
PROBES 97 THRU 104	0.0008	0.0001	0.0001	0.0006	0.0003	0.0003	-0.0001
PROBES 105 THRU 112	0.0002	0.0007	0.0003	0.0003	0.0002	0.0001	0.0002
PROBES 113 THRU 120	0.0003	-0.0011	0.1008	0.0003	0.0031	0.0004	0.0003
PROBES 121 THRU 126	0.0004	0.0001	0.0004	0.0002	-0.0004		

AXIAL POSITION # 29, AXIAL LOCATION = 5.50 INCHES, SALT OBSERVED = 0.0021 G-SALT/LBN-WATER, SALT MISSED = 0.0038 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0005	-0.0013	0.0000	0.0007	0.0003	0.0004	0.0003
PROBES 9 THRU 16	0.0003	0.0302	0.0003	0.0003	0.0002	0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0017	0.0007
PROBES 25 THRU 32	0.0003	0.0002	0.0023	-0.0001	0.0001	0.0003	0.0001
PROBES 33 THRU 40	0.0014	0.0001	0.0003	0.0004	0.0302	0.0009	0.0002
PROBES 41 THRU 48	0.0003	0.0010	0.0003	-0.0000	0.0001	0.0003	0.0003
PROBES 49 THRU 56	0.0003	0.0003	0.0004	0.0003	0.0011	0.0005	0.0002
PROBES 57 THRU 64	0.0005	0.0011	0.0001	0.0005	0.0002	0.0003	0.0007
PROBES 65 THRU 72	0.0002	0.0007	0.0006	0.0003	0.0302	0.0004	0.0003
PROBES 73 THRU 80	0.0000	0.0001	0.0002	0.0004	0.0003	0.0004	0.0003
PROBES 81 THRU 88	0.0004	0.0004	0.0000	0.0011	0.0003	0.0003	0.0003
PROBES 89 THRU 96	0.0009	0.0003	0.0003	-0.0002	0.0125	0.0002	-0.0001
PROBES 97 THRU 104	-0.0006	0.0003	0.0001	0.0002	-0.0001	0.0003	-0.0001
PROBES 105 THRU 112	0.0002	0.0005	0.0007	0.0003	0.0003	0.0002	0.0002
PROBES 113 THRU 120	0.0003	-0.0006	0.1103	-0.0000	0.0003	0.0002	0.0002
PROBES 121 THRU 126	0.0005	0.0001	0.0004	0.0002	-0.0004	0.0004	0.0007

AXIAL POSITION # 30, AXIAL LOCATION = 5.25 INCHES, SALT OBSERVED = 0.0019 G-SALT/LBN-WATER, SALT MISSED = 0.0039 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0003	-0.0009	0.0000	0.0001	0.0003	0.0003	0.0003
PROBES 9 THRU 16	0.0003	0.0002	0.0003	0.0002	0.0002	0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0003	0.0003	0.0004	-0.0005
PROBES 25 THRU 32	0.0003	0.0002	0.0023	-0.0001	0.0001	0.0003	0.0001
PROBES 33 THRU 40	0.0014	0.0001	0.0003	0.0004	0.0002	0.0002	0.0002
PROBES 41 THRU 48	0.0003	0.0006	0.0003	0.0004	0.0001	0.0003	0.0003
PROBES 49 THRU 56	0.0004	0.0007	0.0004	0.0002	0.0007	0.0001	0.0003
PROBES 57 THRU 64	0.0003	0.0003	0.0002	0.0004	0.0003	0.0003	0.0007
PROBES 65 THRU 72	0.0002	0.0007	0.0006	0.0003	0.0002	0.0003	0.0003
PROBES 73 THRU 80	0.0001	0.0001	0.0003	0.0003	0.0003	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0003	0.0000	0.0011	0.0008	0.0004	0.0003
PROBES 89 THRU 96	0.0009	0.0003	0.0001	-0.0007	0.0126	0.0031	0.0008
PROBES 97 THRU 104	-0.0006	0.0003	0.0001	0.0002	-0.0001	0.0003	-0.0005
PROBES 105 THRU 112	0.0003	0.0006	0.0007	0.0003	0.0003	0.0002	0.0002
PROBES 113 THRU 120	0.0003	-0.0008	0.1022	-0.0004	0.0003	0.0002	0.0002
PROBES 121 THRU 126	0.0004	0.0001	0.0005	0.0002	-0.0004	0.0013	-0.0001

AXIAL POSITION # 31, AXIAL LOCATION = 5.00 INCHES, SALT OBSERVED = 0.0020 G-SALT/LBN-WATER, SALT MISSED = 0.0039 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0005	-0.0005	-0.0000	0.0003	0.0002	0.0003	0.0003
PROBES 9 THRU 16	0.0003	0.0002	0.0003	0.0002	0.0003	0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0017	0.0007
PROBES 25 THRU 32	0.0004	0.0001	0.0023	-0.0001	0.0001	0.0003	0.0001
PROBES 33 THRU 40	0.0014	0.0001	0.0003	0.0004	0.0002	0.0009	0.0002
PROBES 41 THRU 48	0.0003	0.0006	0.0003	0.0004	0.0001	0.0005	0.0004
PROBES 49 THRU 56	0.0002	0.0010	0.0004	0.0002	0.0007	0.0001	0.0003
PROBES 57 THRU 64	0.0003	0.0003	0.0002	0.0004	0.0002	0.0003	0.0007
PROBES 65 THRU 72	0.0002	0.0007	0.0006	0.0003	0.0006	0.0002	0.0003
PROBES 73 THRU 80	0.0001	0.0001	0.0003	0.0003	0.0005	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0003	0.0000	0.0011	0.0005	0.0003	0.0004
PROBES 89 THRU 96	0.0011	0.0003	0.0001	0.0001	0.0058	0.0003	-0.0010

PROBES 97 THRU 104 -0.0001 0.0003 0.0001 0.0006 0.0002 0.0010 0.0003
 PROBES 105 THRU 112 0.0003 0.0006 0.0007 0.0007 0.0002 0.0002 0.0002
 PROBES 113 THRU 120 0.0003 -0.0011 0.1058 -0.0011 0.0003 0.0004 0.0003
 PROBES 121 THRU 126 0.0004 0.0001 0.0004 0.0002 0.0002 -0.0002 0.0003
 AXIAL POSITION # 32, AXIAL LOCATION = 4.75 INCHES, SALT OBSERVED = 0.0017 G-SALT/LBM-WATER, SALT MISSED = 0.0042 G-SALT/LBM-WATER

PROBES 1 THRU 8 0.0005 0.0013 0.0000 0.0001 0.0003 0.0003 0.0003
 PROBES 9 THRU 16 0.0003 0.0002 0.0003 0.0002 0.0002 0.0002 0.0003
 PROBES 17 THRU 24 0.0004 0.0002 0.0003 0.0002 0.0004 0.0002 0.0003
 PROBES 25 THRU 32 0.0004 0.0001 0.0023 -0.0001 0.0001 0.0003 0.0001
 PROBES 33 THRU 40 0.0014 0.0000 0.0003 0.0004 0.0001 0.0009 0.0000
 PROBES 41 THRU 48 0.0003 0.0003 0.0003 -0.0000 0.0001 0.0003 0.0003
 PROBES 49 THRU 56 0.0003 0.0003 0.0004 0.0002 0.0007 0.0004 0.0002
 PROBES 57 THRU 64 0.0005 0.0011 0.0001 0.0005 0.0002 0.0003 0.0002
 PROBES 65 THRU 72 0.0002 0.0007 0.0006 0.0003 0.0009 0.0003 0.0003
 PROBES 73 THRU 80 0.0000 0.0001 0.0002 0.0004 0.0003 0.0004 0.0005
 PROBES 81 THRU 88 0.0004 0.0003 0.0000 0.0004 0.0007 0.0003 0.0005
 PROBES 89 THRU 96 0.0014 0.0004 0.0004 -0.0001 0.0058 0.0008 0.0002
 PROBES 97 THRU 104 -0.0006 0.0003 0.0001 0.0001 0.0006 0.0002 0.0010
 PROBES 105 THRU 112 0.0002 0.0005 0.0003 0.0003 0.0003 0.0002 0.0003
 PROBES 113 THRU 120 0.0003 -0.0011 0.0885 -0.0006 0.0003 0.0002 -0.0001
 PROBES 121 THRU 126 0.0003 0.0000 0.0003 0.0002 0.0002 0.0001 -0.0001

AXIAL POSITION # 33, AXIAL LOCATION = 4.50 INCHES, SALT OBSERVED = 0.0015 G-SALT/LBM-WATER, SALT MISSED = 0.0044 G-SALT/LBM-WATER
 PROBES 1 THRU 8 0.0003 -0.0009 0.0000 0.0001 0.0003 0.0003 0.0003
 PROBES 9 THRU 16 0.0003 0.0002 0.0003 0.0002 0.0002 0.0002 0.0002
 PROBES 17 THRU 24 0.0002 0.0001 0.0003 0.0002 0.0002 0.0004 0.0003
 PROBES 25 THRU 32 0.0004 0.0001 0.0023 -0.0001 0.0001 0.0002 0.0002
 PROBES 33 THRU 40 0.0003 0.0001 0.0003 0.0004 0.0002 0.0009 0.0000
 PROBES 41 THRU 48 0.0003 0.0003 0.0003 0.0003 -0.0000 0.0003 0.0003
 PROBES 49 THRU 56 0.0003 0.0003 0.0004 0.0002 0.0007 0.0004 0.0001
 PROBES 57 THRU 64 0.0002 0.0003 0.0002 0.0004 0.0002 0.0003 0.0007
 PROBES 65 THRU 72 0.0002 0.0007 0.0005 0.0003 0.0013 0.0004 0.0003
 PROBES 73 THRU 80 0.0000 0.0001 0.0002 0.0004 0.0003 0.0005 0.0004
 PROBES 81 THRU 88 0.0004 0.0003 0.0000 0.0014 0.0006 0.0003 0.0003
 PROBES 89 THRU 96 0.0011 0.0003 0.0000 0.0000 0.0049 0.0016 0.0002
 PROBES 97 THRU 104 0.0004 0.0003 0.0001 0.0001 -0.0001 0.0003 0.0003
 PROBES 105 THRU 112 0.0002 0.0005 0.0007 0.0003 0.0003 0.0002 0.0002
 PROBES 113 THRU 120 0.0003 -0.0010 0.0773 -0.0001 0.0003 0.0002 0.0003
 PROBES 121 THRU 126 0.0004 0.0001 0.0004 0.0002 0.0002 -0.0001 0.0003

AXIAL POSITION # 34, AXIAL LOCATION = 4.25 INCHES, SALT OBSERVED = 0.0015 G-SALT/LBM-WATER, SALT MISSED = 0.0044 G-SALT/LBM-WATER
 PROBES 1 THRU 8 0.0005 -0.0005 0.0000 0.0003 0.0003 0.0003 0.0003
 PROBES 9 THRU 16 0.0003 0.0002 0.0003 0.0002 0.0002 0.0002 0.0002
 PROBES 17 THRU 24 0.0002 0.0001 0.0004 0.0002 0.0003 0.0012 0.0010
 PROBES 25 THRU 32 0.0003 0.0002 0.0023 -0.0001 0.0001 0.0003 0.0001
 PROBES 33 THRU 40 0.0014 0.0001 0.0003 0.0004 0.0002 0.0009 0.0002
 PROBES 41 THRU 48 0.0003 0.0006 0.0003 0.0004 0.0001 0.0003 0.0003
 PROBES 49 THRU 56 0.0004 0.0007 0.0004 0.0002 0.0007 0.0003 0.0001
 PROBES 57 THRU 64 0.0005 0.0011 0.0002 0.0005 0.0002 0.0003 0.0003
 PROBES 65 THRU 72 0.0002 0.0015 0.0006 0.0004 0.0054 0.0007 0.0001
 PROBES 73 THRU 80 0.0001 0.0002 0.0003 0.0003 0.0005 -0.0005 0.0005
 PROBES 81 THRU 88 0.0004 0.0003 0.0002 0.0014 0.0007 0.0003 0.0003
 PROBES 89 THRU 96 0.0014 0.0005 0.0002 -0.0001 0.0072 0.0008 0.0010
 PROBES 97 THRU 104 0.0030 0.0003 0.0001 0.0001 0.0006 0.0002 0.0010
 PROBES 105 THRU 112 0.0002 0.0005 0.0007 0.0003 0.0003 0.0002 0.0002
 PROBES 113 THRU 120 0.0003 0.0016 0.0643 0.0003 0.0003 0.0002 0.0003

PROBES 1 THRU 8	0.0005	-0.0313	0.0000	0.0007	9.0002	0.0033	0.0005	0.0007
PROBES 9 THRU 16	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0003	0.0003	0.0006	0.0007
PROBES 25 THRU 32	0.0003	0.0003	-0.0001	-0.0001	0.0002	-0.0005	-0.0003	0.0001
PROBES 33 THRU 40	0.0014	0.0002	0.0006	-0.0001	0.0003	0.0002	0.0005	0.0001
PROBES 41 THRU 48	0.0003	0.0010	0.0003	0.0003	0.0000	0.0007	0.0003	0.0004
PROBES 49 THRU 56	0.0003	-0.0009	0.0004	0.0003	0.0003	-0.0001	0.0003	0.0002
PROBES 57 THRU 64	0.0003	-0.0009	0.0002	0.0003	0.0002	0.0003	0.0007	-0.0001
PROBES 65 THRU 72	0.0003	0.0007	0.0006	0.0004	0.0004	0.0003	0.0004	-0.0000
PROBES 73 THRU 80	0.0001	0.0001	0.0004	0.0003	0.0004	-0.0001	0.0004	0.0005
PROBES 81 THRU 88	0.0004	0.0004	0.0001	0.0011	0.0005	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0016	0.0005	0.0002	0.0003	0.0055	0.0008	0.0002	0.0004
PROBES 97 THRU 104	-0.0011	0.0003	0.0002	0.0002	0.0006	0.0003	0.0002	-0.0001
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0003	0.0002	0.0002
PROBES 113 THRU 120	0.0002	0.0003	0.0228	0.0002	0.0003	0.0001	-0.0001	0.0007
PROBES 121 THRU 126	0.0004	0.0001	0.0005	0.0002	0.0002	0.0000		

AXIAL POSITION # 39, AXIAL LOCATION = 3.00 INCHES, SALT OBSERVED = 0.0005 G-SALT/LBM-WATER, SALT MISSED = 0.0054 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	-0.0013	0.0000	0.0007	0.0002	0.0003	0.0005	0.0007
PROBES 9 THRU 16	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0004
PROBES 17 THRU 24	0.0002	0.0001	0.0002	0.0002	0.0003	0.0003	-0.0006	0.0007
PROBES 25 THRU 32	0.0003	0.0003	-0.0001	-0.0001	0.0002	-0.0005	0.0002	0.0001
PROBES 33 THRU 40	0.0007	0.0002	0.0006	-0.0001	0.0003	0.0002	0.0007	0.0003
PROBES 41 THRU 48	0.0003	0.0006	0.0003	0.0002	0.0001	0.0003	0.0003	0.0004
PROBES 49 THRU 56	0.0004	-0.0001	0.0004	0.0003	-0.0001	-0.0001	0.0003	0.0002
PROBES 57 THRU 64	0.0005	-0.0001	0.0001	0.0003	0.0002	0.0003	0.0007	-0.0001
PROBES 65 THRU 72	0.0003	0.0007	0.0003	0.0003	0.0003	0.0004	0.0004	-0.0000
PROBES 73 THRU 80	0.0001	0.0001	0.0004	0.0003	0.0004	-0.0001	0.0004	0.0005
PROBES 81 THRU 88	0.0004	0.0004	0.0004	0.0012	0.0005	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0016	0.0005	0.0001	0.0002	0.0049	-0.0006	0.0003	0.0004
PROBES 97 THRU 104	-0.0011	0.0003	0.0002	0.0002	-0.0001	0.0002	0.0003	-0.0001
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0002	0.0004	0.0002
PROBES 113 THRU 120	0.0003	0.0005	0.0134	0.0002	0.0003	0.0001	-0.0001	0.0011
PROBES 121 THRU 126	0.0006	0.0000	0.0003	0.0002	0.0002	-0.0002		

AXIAL POSITION # 40, AXIAL LOCATION = 2.75 INCHES, SALT OBSERVED = 0.0005 G-SALT/LBM-WATER, SALT MISSED = 0.0054 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0006	0.0000	0.0002	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003
PROBES 17 THRU 24	0.0001	0.0001	0.0004	0.0003	0.0003	0.0003	-0.0006	0.0007
PROBES 25 THRU 32	0.0003	0.0003	-0.0001	-0.0001	0.0003	0.0003	0.0002	0.0001
PROBES 33 THRU 40	-0.0013	0.0002	0.0003	-0.0012	0.0006	0.0002	0.0005	0.0000
PROBES 41 THRU 48	0.0003	-0.0001	0.0003	0.0003	0.0001	0.0003	0.0003	0.0004
PROBES 49 THRU 56	0.0005	-0.0009	0.0003	0.0005	0.0003	-0.0007	0.0003	0.0003
PROBES 57 THRU 64	0.0005	-0.0001	0.0002	0.0004	0.0002	0.0003	0.0007	-0.0001
PROBES 65 THRU 72	0.0003	-0.0001	0.0004	0.0004	0.0003	0.0002	0.0004	0.0001
PROBES 73 THRU 80	0.0001	0.0001	0.0003	0.0003	0.0004	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0004	0.0003	0.0012	0.0005	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0016	0.0005	0.0001	0.0003	0.0049	0.0012	0.0003	0.0004
PROBES 97 THRU 104	-0.0011	0.0003	0.0002	0.0002	0.0003	0.0004	-0.0016	-0.0013
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0003	0.0003	0.0002
PROBES 113 THRU 120	0.0003	0.0005	0.0176	0.0005	0.0003	0.0001	0.0003	0.0011
PROBES 121 THRU 126	0.0006	0.0001	0.0007	0.0002	0.0002	-0.0002	-0.0001	

AXIAL POSITION # 41, AXIAL LOCATION = 2.50 INCHES, SALT OBSERVED = 0.0004 G-SALT/LBM-WATER, SALT MISSED = 0.0054 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	-0.0013	0.0001	0.0002	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0004	0.0004	0.0007	0.0004	0.0000	0.0003	0.0003

PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0004	-0.0001	-0.0001
PROBES 25 THRU 32	0.0004	0.0004	0.0003	-0.0001	0.0003	-0.0001	0.0032	0.0001
PROBES 33 THRU 40	-0.0005	0.0002	0.0031	-0.0012	0.0006	0.0005	0.0005	0.0000
PROBES 41 THRU 48	0.0003	-0.0001	0.0003	0.0003	0.0001	0.0004	0.0005	0.0003
PROBES 49 THRU 56	0.0002	-0.0001	0.0004	0.0004	0.0003	-0.0007	0.0005	0.0003
PROBES 57 THRU 64	0.0006	-0.0001	0.0002	0.0004	0.0002	0.0003	0.0007	-0.0005
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0003	0.0004
PROBES 73 THRU 80	0.0003	0.0001	0.0003	0.0003	0.0004	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0004	0.0003	0.0012	0.0003	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0016	0.0005	0.0001	0.0005	0.0028	0.0003	0.0003	-0.0001
PROBES 97 THRU 104	-0.0001	0.0003	0.0002	0.0002	-0.0001	0.0002	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0003	0.0003	0.0002
PROBES 113 THRU 120	0.0002	-0.0011	0.0139	0.0003	0.0003	0.0001	-0.0011	0.0003
PROBES 121 THRU 126	0.0005	0.0001	0.0002	0.0002	0.0002	-0.0002	0.0002	0.0003

AXIAL POSITION # 42, AXIAL LOCATION = 2.25 INCHES, SALT OBSERVED = 0.0005 G-SALT/LBN-WATER, SALT MISSED = 0.0054 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0004	0.0003	0.0000	0.0004	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0003	0.0003	0.0003	0.0004	0.0000	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0004	-0.0001	-0.0001
PROBES 25 THRU 32	0.0004	0.0004	0.0003	-0.0001	0.0003	-0.0001	0.0002	0.0001
PROBES 33 THRU 40	-0.0005	0.0002	0.0003	-0.0012	0.0006	0.0002	0.0005	0.0004
PROBES 41 THRU 48	0.0003	-0.0001	0.0003	0.0003	0.0001	0.0003	0.0003	0.0004
PROBES 49 THRU 56	0.0005	-0.0009	0.0003	0.0004	0.0003	-0.0007	0.0005	0.0003
PROBES 57 THRU 64	0.0006	-0.0001	0.0002	0.0004	0.0002	0.0003	-0.0001	-0.0001
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0003	0.0004
PROBES 73 THRU 80	0.0003	0.0001	0.0004	0.0003	0.0005	-0.0008	0.0005	0.0002
PROBES 81 THRU 88	0.0004	0.0005	0.0003	0.0004	0.0004	0.0003	0.0003	0.0005
PROBES 89 THRU 96	0.0011	0.0004	0.0001	0.0006	0.0020	-0.0006	0.0003	-0.0001
PROBES 97 THRU 104	-0.0001	0.0003	0.0002	0.0002	-0.0001	0.0002	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0003	0.0003	0.0002
PROBES 113 THRU 120	0.0003	-0.0009	0.0174	0.0003	0.0003	0.0001	0.0003	0.0002
PROBES 121 THRU 126	0.0005	0.0001	0.0007	0.0002	0.0002	0.0000	-0.0011	0.0003

AXIAL POSITION # 43, AXIAL LOCATION = 2.00 INCHES, SALT OBSERVED = 0.0004 G-SALT/LBN-WATER, SALT MISSED = 0.0054 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0005	-0.0013	0.0001	0.0003	0.0001	0.0002	0.0002	0.0004
PROBES 9 THRU 16	0.0003	0.0003	0.0004	0.0007	0.0004	0.0000	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0004	-0.0001	-0.0001
PROBES 25 THRU 32	0.0004	0.0004	0.0003	-0.0001	0.0003	0.0003	0.0002	0.0001
PROBES 33 THRU 40	-0.0005	0.0001	-0.0005	-0.0006	0.0007	0.0002	0.0005	0.0000
PROBES 41 THRU 48	0.0003	-0.0001	0.0003	0.0003	0.0001	0.0003	0.0003	0.0004
PROBES 49 THRU 56	0.0005	-0.0009	0.0003	0.0004	-0.0001	-0.0001	0.0003	-0.0001
PROBES 57 THRU 64	0.0005	-0.0001	0.0002	0.0004	0.0003	0.0003	-0.0001	0.0001
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0002	0.0003	0.0004	0.0002
PROBES 73 THRU 80	0.0000	0.0002	0.0004	0.0004	0.0003	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0005	0.0002	0.0009	0.0009	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0011	0.0004	0.0001	0.0007	0.0024	-0.0001	0.0004	0.0004
PROBES 97 THRU 104	-0.0011	0.0003	0.0002	0.0003	-0.0001	0.0001	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0005	0.0008	0.0003	0.0003	0.0002
PROBES 113 THRU 120	0.0003	-0.0004	0.0161	0.0003	0.0003	0.0001	-0.0011	0.0003
PROBES 121 THRU 126	0.0005	0.0001	0.0003	0.0002	0.0002	0.0001	-0.0011	0.0003

AXIAL POSITION # 44, AXIAL LOCATION = 1.75 INCHES, SALT OBSERVED = 0.0064 G-SALT/LBN-WATER, SALT MISSED = 0.0006 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0004	-0.0001	0.0000	0.0004	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0004	0.0004	0.0007	0.0004	0.0004	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0004	-0.0001	-0.0001
PROBES 25 THRU 32	0.0004	0.0004	0.0003	-0.0001	0.0003	0.0004	0.0004	0.0001
PROBES 33 THRU 40	-0.0005	0.0001	-0.0002	-0.0017	0.0006	-0.0002	0.0005	0.0000

PROBES 41 THRU 49	0.0003	0.0003	0.0001	0.0003	0.0004	0.0005	0.0004
PROBES 49 THRU 56	0.0003	0.0003	-0.0001	0.0003	-0.0001	0.0003	0.0001
PROBES 57 THRU 64	0.0003	0.0003	0.0003	0.0003	0.0003	-0.0001	0.0001
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003
PROBES 73 THRU 80	0.0001	0.0004	0.0004	0.0004	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0003	0.0004	0.0004	0.0003	0.0003	0.0005
PROBES 89 THRU 96	0.0011	0.0001	0.0007	0.0052	0.0008	-0.0001	0.0001
PROBES 97 THRU 104	-0.0006	0.0004	0.0003	0.0003	0.0003	-0.0008	-0.0001
PROBES 105 THRU 112	0.0002	-0.0001	0.0003	0.0005	0.0002	0.0002	0.0002
PROBES 113 THRU 120	0.0003	-0.0002	0.0003	0.0003	0.0001	0.0004	0.0003
PROBES 121 THRU 126	0.0004	0.0586	0.9785	0.9196	0.3020		

AXIAL POSITION # 45, AXIAL LOCATION = 1.50 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0003	0.0004	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0004	0.0007	0.0004	0.0004	0.0002	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0002	0.0004	0.0005	0.0025	0.0001
PROBES 25 THRU 32	0.0004	0.0003	-0.0001	0.0003	-0.0001	0.0003	0.0001
PROBES 33 THRU 40	0.0003	0.0003	-0.0012	0.0006	0.0002	0.0005	0.0000
PROBES 41 THRU 48	0.0003	0.0003	0.0003	0.0001	0.0004	0.0005	0.0004
PROBES 49 THRU 56	0.0003	0.0003	0.0003	-0.0001	-0.0001	0.0003	0.0003
PROBES 57 THRU 64	0.0005	0.0004	0.0004	0.0003	0.0003	-0.0001	-0.0001
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0002	0.0003	0.0004	0.0003
PROBES 73 THRU 80	0.0001	0.0004	0.0004	0.0003	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0003	0.0004	0.0004	0.0003	0.0005	0.0005
PROBES 89 THRU 96	0.0011	0.0004	0.0006	0.0008	0.0006	0.0003	-0.0015
PROBES 97 THRU 104	-0.0011	0.0003	0.0002	-0.0001	0.0002	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0003	0.0005	0.0003	0.0002	0.0002	0.0002
PROBES 113 THRU 120	0.0003	-0.0005	0.0003	0.0005	0.0004	0.0001	-0.0001
PROBES 121 THRU 126	0.0004	0.0001	0.0003	0.0002	0.0003		

AXIAL POSITION # 46, AXIAL LOCATION = 1.25 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	0.0003	0.0003	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0007	0.0004	0.0004	0.0000	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0002	0.0004	0.0004	-0.0001	0.0003
PROBES 25 THRU 32	0.0004	0.0004	-0.0001	0.0003	-0.0001	0.0032	0.0021
PROBES 33 THRU 40	-0.0001	0.0003	-0.0006	0.0007	0.0002	0.0007	0.0003
PROBES 41 THRU 48	0.0003	0.0003	0.0003	0.0001	0.0004	0.0005	0.0004
PROBES 49 THRU 56	0.0007	0.0005	0.0004	0.0003	-0.0001	0.0003	0.0003
PROBES 57 THRU 64	0.0005	0.0002	0.0004	0.0002	0.0001	-0.0001	-0.0001
PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0002	0.0003	0.0006	0.0002
PROBES 73 THRU 80	0.0000	0.0001	0.0004	0.0004	-0.0001	0.0004	0.0004
PROBES 81 THRU 88	0.0004	0.0007	0.0004	0.0003	0.0003	0.0004	0.0005
PROBES 89 THRU 96	0.0011	0.0004	0.0009	0.0012	-0.0001	0.0005	-0.0015
PROBES 97 THRU 104	0.0004	0.0003	0.0002	-0.0005	0.0002	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0003	0.0003	0.0005	0.0002	0.0004	0.0002
PROBES 113 THRU 120	0.0004	-0.0001	0.0006	0.0004	0.0001	0.0004	-0.0002
PROBES 121 THRU 126	0.0005	0.0001	0.0002	0.0002	0.0003		

AXIAL POSITION # 47, AXIAL LOCATION = 1.00 INCHES, SALT OBSERVED =0.0002 G-SALT/LBM-WATER, SALT MISSED =0.0056 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0004	0.0004	0.0001	0.0003	0.0002	0.0003	0.0005
PROBES 9 THRU 16	0.0004	0.0004	0.0004	0.0007	0.0004	0.0002	0.0004
PROBES 17 THRU 24	0.0002	0.0003	0.0003	0.0002	0.0003	0.0004	-0.0009
PROBES 25 THRU 32	0.0004	0.0003	-0.0001	-0.0009	0.0003	-0.0001	0.0001
PROBES 33 THRU 40	-0.0001	0.0003	-0.0001	-0.0006	0.0007	0.0002	0.0005
PROBES 41 THRU 48	0.0003	-0.0003	0.0003	0.0003	0.0001	0.0004	0.0003
PROBES 49 THRU 56	0.0002	0.0004	0.0004	0.0003	-0.0001	0.0003	-0.0001
PROBES 57 THRU 64	0.0005	0.0005	0.0001	0.0004	0.0003	-0.0001	-0.0001

PROBES 65 THRU 72	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 73 THRU 80	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0002
PROBES 81 THRU 88	0.0004	0.0005	0.0003	0.0004	0.0003	0.0004	0.0004
PROBES 89 THRU 96	0.0011	0.0003	0.0004	0.0002	0.0012	0.0034	0.0005
PROBES 97 THRU 104	0.0004	0.0003	0.0002	0.0002	0.0003	0.0007	0.0008
PROBES 105 THRU 112	0.0003	0.0005	0.0003	0.0003	0.0005	0.0001	-0.0009
PROBES 113 THRU 120	0.0002	-0.0008	0.0006	0.0004	0.0004	0.0001	0.0002
PROBES 121 THRU 126	0.0004	0.0000	0.0003	0.0002	0.0001	0.0004	-0.0001

A5.4. Edge Injection Mixing Data (gm/lbm)

Injection Subchannel: 114

Reynolds Number: 11410

Flow Rate: 185 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.39 lb/min

**SALT CONCENTRATIONS FOLLOW:

AXIAL POSITION # 1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0003	0.0023	0.0008	-0.0004	-0.0006	0.0023	0.0016	0.0144
PROBES 9 THRU 16	0.0002	0.0002	0.0030	-0.0001	-0.0001	0.0007	0.0095	0.0003
PROBES 17 THRU 24	0.0002	0.0004	0.0007	0.0008	0.0005	0.0005	0.0076	0.0078
PROBES 25 THRU 32	0.0002	-0.0002	0.0016	0.0014	0.0001	-0.0012	0.0001	0.0001
PROBES 33 THRU 40	0.0007	0.0004	0.0003	-0.0012	0.0001	0.0002	0.0009	0.0001
PROBES 41 THRU 48	0.0003	0.0006	0.0004	0.0002	0.0001	0.0003	0.0000	0.0003
PROBES 49 THRU 56	-0.0006	0.0059	0.0007	0.0001	0.0039	0.0018	0.0000	0.0005
PROBES 57 THRU 64	0.0006	0.0088	0.0016	0.0003	0.0003	0.0006	0.0021	0.0111
PROBES 65 THRU 72	0.0016	0.0070	0.0003	0.0003	0.0028	0.0013	0.0005	-0.0005
PROBES 73 THRU 80	0.0025	0.0151	0.0084	0.0055	0.0032	0.0085	0.0012	0.0006
PROBES 81 THRU 88	0.0038	0.0031	0.0037	0.0042	0.0086	0.0055	0.0043	0.0074
PROBES 89 THRU 96	0.0057	0.0108	0.0079	0.0034	0.0134	0.0143	0.0089	0.0145
PROBES 97 THRU 104	0.0236	0.0307	0.0292	0.0123	0.0120	0.0002	-0.0020	0.0007
PROBES 105 THRU 112	0.0002	0.0004	0.0010	0.0004	0.0007	0.0002	-0.0000	0.0006
PROBES 113 THRU 120	0.0003	-0.0011	0.0006	0.0010	0.0046	0.0061	0.0000	0.0006
PROBES 121 THRU 126	0.0229	0.0072	-0.0007	0.0002	0.0004	0.0004	0.0144	0.0172

AXIAL POSITION # 2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBN-WATER, SALT MISSED = 0.0018 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0003	0.0013	0.0003	-0.0002	-0.0004	0.0006	0.0001	0.0079
PROBES 9 THRU 16	0.0002	0.0003	0.0002	0.0001	0.0000	-0.0001	0.0015	0.0003
PROBES 17 THRU 24	0.0004	0.0006	0.0004	0.0002	0.0004	0.0003	0.0065	0.0018

3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER									
PROBES	25 THRU	32							
PROBES	25 THRU	32	-0.0002	0.0016	0.0014	0.0001	0.0023	0.0002	0.0001
PROBES	33 THRU	40	0.0007	0.0014	-0.0001	0.0002	0.0003	0.0004	0.0000
PROBES	41 THRU	48	0.0003	0.0010	0.0001	0.0000	0.0004	-0.0002	0.0003
PROBES	49 THRU	56	-0.0006	0.0005	0.0001	0.0008	0.0036	0.0001	0.0005
PROBES	57 THRU	64	0.0090	0.0019	0.0005	0.0004	0.0026	0.0024	0.0113
PROBES	65 THRU	72	0.0021	0.0075	0.0003	0.0038	0.0017	0.0037	-0.0005
PROBES	73 THRU	80	0.0020	0.0144	0.0035	0.0022	0.0071	0.0008	0.0003
PROBES	81 THRU	88	0.0037	0.0027	0.0035	0.0100	0.0060	0.0054	0.0094
PROBES	89 THRU	96	0.0070	0.0134	0.0046	0.0145	0.0152	0.0137	0.0164
PROBES	97 THRU	104	0.0410	0.0157	0.0020	0.0032	0.0002	0.0010	0.0014
PROBES	105 THRU	112	0.0003	0.0003	0.0021	0.0007	0.0002	0.0000	0.0005
PROBES	113 THRU	120	0.0004	0.0013	0.0028	0.0077	0.0115	0.0179	0.0275
PROBES	121 THRU	126	0.0389	-0.0004	0.0002	0.0005	0.0013		

AXIAL POSITION # 3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER

4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 0.0039 G-SALT/LBM-WATER, SALT MISSED = 0.0019 G-SALT/LBM-WATER									
PROBES	1 THRU	8							
PROBES	1 THRU	8	0.0004	0.0004	-0.0001	-0.0003	0.0003	-0.0001	0.0005
PROBES	9 THRU	16	0.0002	0.0000	-0.0000	0.0001	-0.0000	-0.0000	0.0002
PROBES	17 THRU	24	0.0002	0.0003	0.0003	0.0003	0.0002	0.0059	0.0021
PROBES	25 THRU	32	0.0007	0.0020	0.0001	0.0001	-0.0001	0.0001	0.0001
PROBES	33 THRU	40	0.0007	0.0014	0.0000	0.0000	0.0003	0.0003	-0.0001
PROBES	41 THRU	48	0.0003	0.0006	0.0002	0.0001	0.0004	-0.0003	0.0003
PROBES	49 THRU	56	-0.0008	0.0005	0.0001	0.0032	0.0004	0.0000	0.0001
PROBES	57 THRU	64	0.0002	0.0016	0.0003	0.0003	0.0004	0.0010	0.0116
PROBES	65 THRU	72	0.0019	0.0063	0.0002	0.0045	0.0015	0.0036	-0.0005
PROBES	73 THRU	80	0.0317	0.0049	0.0019	0.0011	0.0057	0.0005	0.0002
PROBES	81 THRU	88	0.0028	0.0025	0.0035	0.0098	0.0071	0.0059	0.0119
PROBES	89 THRU	96	0.0088	0.0173	0.0027	0.0153	0.0163	0.0179	0.0187
PROBES	97 THRU	104	0.0424	0.0007	0.0006	0.0023	0.0001	-0.0016	-0.0001
PROBES	105 THRU	112	0.0004	0.0017	0.0003	0.0005	0.0002	-0.0000	0.0005
PROBES	113 THRU	120	0.0003	-0.0011	0.0019	0.0132	0.0204	0.0295	0.0446
PROBES	121 THRU	126	0.0488	-0.0004	0.0002	0.0005	0.0031		

AXIAL POSITION # 4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 0.0039 G-SALT/LBM-WATER, SALT MISSED = 0.0019 G-SALT/LBM-WATER

5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER									
PROBES	1 THRU	8							
PROBES	1 THRU	8	-0.0004	0.0001	0.0001	-0.0002	0.0002	-0.0000	0.0003
PROBES	9 THRU	16	0.0003	0.0001	-0.0001	0.0000	-0.0001	0.0002	0.0002
PROBES	17 THRU	24	0.0002	0.0004	0.0003	0.0003	0.0001	0.0056	0.0028
PROBES	25 THRU	32	0.0002	0.0026	0.0020	0.0001	-0.0012	0.0031	0.0001
PROBES	33 THRU	40	0.0011	0.0017	0.0023	0.0003	0.0003	0.0005	0.0002
PROBES	41 THRU	48	0.0003	0.0020	-0.0000	0.0001	0.0003	0.0000	0.0003
PROBES	49 THRU	56	-0.0007	0.0031	0.0001	0.0036	0.0013	0.0001	-0.0000
PROBES	57 THRU	64	-0.0003	0.0073	0.0013	0.0002	0.0003	0.0014	0.0114
PROBES	65 THRU	72	0.0021	0.0055	0.0003	0.0057	0.0015	0.0006	-0.0005
PROBES	73 THRU	80	0.0007	0.0005	0.0005	-0.0001	0.0026	0.0004	0.0001
PROBES	81 THRU	88	0.0013	-0.0000	-0.0006	0.0022	0.0055	0.0046	0.0087
PROBES	89 THRU	96	0.0045	0.0127	0.0084	0.0149	0.0160	0.0179	0.0193
PROBES	97 THRU	104	0.0049	0.0003	0.0000	0.0032	0.0001	-0.0004	0.0003
PROBES	105 THRU	112	0.0002	0.0027	0.0003	0.0001	0.0002	-0.0000	0.0005
PROBES	113 THRU	120	0.0003	0.0019	0.0091	0.0262	0.0406	0.0380	0.0260
PROBES	121 THRU	126	0.0115	-0.0003	0.0002	0.0005	0.0081		

AXIAL POSITION # 5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER

5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0015 G-SALT/LBM-WATER									
PROBES	1 THRU	8							
PROBES	1 THRU	8	0.0004	0.0004	-0.0001	-0.0004	0.0003	0.0001	0.0003
PROBES	9 THRU	16	0.0001	0.0003	0.0003	-0.0001	-0.0001	0.0001	0.0003
PROBES	17 THRU	24	0.0002	0.0003	0.0002	0.0001	0.0001	0.0065	0.0031
PROBES	25 THRU	32	0.0002	0.0023	0.0024	-0.0000	-0.0001	0.0051	0.0001
PROBES	33 THRU	40	0.0021	0.0003	0.0018	0.0002	0.0003	0.0004	-0.0003
PROBES	41 THRU	48	0.0003	0.0003	-0.0003	0.0002	0.0002	-0.0000	0.0003

PROBES 49 THRU 56	-0.0008	0.0041	0.0004	0.0001	0.0045	0.0023	0.0001	0.0003
PROBES 57 THRU 64	0.0003	0.0085	0.0015	0.0003	0.0003	0.0004	0.0014	0.0126
PROBES 65 THRU 72	0.0027	0.0063	0.0003	0.0003	0.0000	0.0016	0.0009	-0.0005
PROBES 73 THRU 80	0.0014	0.0002	0.0000	0.0004	-0.0001	0.0037	0.0004	0.0002
PROBES 81 THRU 88	0.0018	0.0003	-0.0003	-0.0007	0.0010	0.0079	0.0076	0.0127
PROBES 89 THRU 96	0.0059	0.0137	0.0142	0.0120	0.0162	0.0177	0.0215	0.0212
PROBES 97 THRU 104	0.0045	0.0003	0.0001	0.0004	0.0026	0.0002	0.0003	0.0031
PROBES 105 THRU 112	0.0002	0.0003	0.0027	0.0002	0.0004	0.0002	-0.0000	0.0006
PROBES 113 THRU 120	0.0005	-0.0011	0.0039	0.0134	0.0316	0.0467	0.0473	0.0162
PROBES 121 THRU 126	0.0032	0.0033	-0.0004	0.0003	0.0006	0.0100		

A5.5. Peripheral Injection Mixing Data (gm/lbm)

Injection Subchannel: 94

Reynolds Number: 1542

Flow Rate: 25 gpm

Injection Concentration: 25 gm/lbm

Injection Flow Rate: 0.041 lbm/min

**SALT CONCENTRATIONS FOLLOW:

AXIAL POSITION # 1, AXIAL LOCATION = 42.00 INCHES, SALT OBSERVED = 0.0037 G-SALT/LBM-WATER, SALT MISSED = 0.0012 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0003	0.0013	0.0002	-0.0000	-0.0001	0.0002	0.0001	0.0001	0.0003
PROBES 9 THRU 16	0.0003	0.0003	0.0003	0.0004	0.0002	0.0003	0.0003	0.0003	0.0003
PROBES 17 THRU 24	0.0004	0.0007	0.0005	0.0003	0.0004	0.0003	0.0003	0.0003	0.0010
PROBES 25 THRU 32	0.0002	0.0000	0.0016	-0.0009	0.0003	-0.0001	0.0003	0.0003	0.0002
PROBES 33 THRU 40	-0.0001	0.0003	-0.0001	-0.0001	0.0003	0.0002	0.0006	0.0006	0.0004
PROBES 41 THRU 48	0.0003	0.0010	0.0003	0.0002	0.0000	0.0009	0.0006	0.0006	0.0003
PROBES 49 THRU 56	-0.0007	0.0018	0.0003	0.0003	-0.0006	-0.0023	0.0003	0.0028	0.0028
PROBES 57 THRU 64	0.0007	0.0100	0.0007	0.0001	0.0003	0.0003	-0.0005	0.0109	0.0109
PROBES 65 THRU 72	0.0008	0.0015	0.0005	0.0004	0.0003	0.0003	0.0004	0.0003	0.0003
PROBES 73 THRU 80	0.0068	0.0008	0.0001	0.0011	0.0012	0.0012	0.0116	0.0004	0.0004
PROBES 81 THRU 88	0.0059	0.0112	0.0042	0.0082	0.0029	0.0097	0.0144	0.0275	0.0275
PROBES 89 THRU 96	0.0208	0.0310	0.0209	0.0103	0.0171	0.0266	0.0389	0.0333	0.0333
PROBES 97 THRU 104	0.0122	0.0003	0.0000	-0.0000	-0.0005	0.0005	-0.0012	-0.0005	-0.0005
PROBES 105 THRU 112	0.0003	0.0007	-0.0013	0.0003	0.0005	0.0002	0.0001	0.0002	0.0002
PROBES 113 THRU 120	0.0002	-0.0006	0.0013	0.0062	0.0191	0.0219	0.0203	0.0150	0.0150
PROBES 121 THRU 126	0.0087	0.0007	0.0005	0.0002	0.0002	0.0030			

AXIAL POSITION # 2, AXIAL LOCATION = 36.00 INCHES, SALT OBSERVED = 0.0043 G-SALT/LBM-WATER, SALT MISSED = 0.0006 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	0.0010	0.0001	-0.0000	0.0001	0.0003	0.0004	0.0004	0.0004
PROBES 9 THRU 16	0.0003	0.0004	0.0006	0.0003	0.0004	0.0001	0.0004	0.0004	0.0003
PROBES 17 THRU 24	0.0003	0.0002	0.0004	0.0003	0.0005	0.0004	0.0004	0.0003	0.0003
PROBES 25 THRU 32	0.0002	0.0001	0.0020	-0.0013	0.0004	-0.0012	0.0002	0.0001	0.0001
PROBES 33 THRU 40	0.0003	0.0003	-0.0005	-0.0012	0.0006	0.0002	0.0006	0.0001	0.0001
PROBES 41 THRU 48	0.0003	0.0003	0.0004	0.0002	0.0000	0.0006	0.0004	0.0003	0.0003
PROBES 49 THRU 56	-0.0002	0.0021	0.0004	0.0002	0.0003	-0.0012	0.0002	0.0028	0.0028
PROBES 57 THRU 64	0.0020	0.0119	0.0010	0.0001	0.0002	0.0003	-0.0009	0.0131	0.0131
PROBES 65 THRU 72	0.0023	0.0034	0.0005	0.0003	0.0063	0.0004	0.0004	0.0002	0.0002
PROBES 73 THRU 80	0.0092	0.0002	0.0000	0.0006	0.0007	0.0055	0.0014	0.0003	0.0003
PROBES 81 THRU 88	0.0065	0.0121	0.0015	0.0046	0.0002	0.0175	0.0223	0.0376	0.0376
PROBES 89 THRU 96	0.0234	0.0310	0.0147	0.0236	0.0147	0.0483	0.0504	0.0362	0.0362
PROBES 97 THRU 104	0.0026	0.0004	0.0001	-0.0000	-0.0005	0.0005	-0.0012	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0006	-0.0009	0.0003	0.0005	0.0002	0.0004	0.0003	0.0003
PROBES 113 THRU 120	0.0002	-0.0008	0.0067	0.0158	0.0238	0.0201	0.0161	0.0094	0.0094
PROBES 121 THRU 126	0.0000	0.0001	0.0008	0.0002	0.0002	0.0083			

AXIAL POSITION # 3, AXIAL LOCATION = 30.00 INCHES, SALT OBSERVED = 0.0040 G-SALT/LBM-WATER, SALT MISSED = 0.0009 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0005	-0.0009	0.0001	0.0001	-0.0000	0.0002	0.0005	0.0007	
-----------------	--------	---------	--------	--------	---------	--------	--------	--------	--

PROBES	9	THRU	16	0.0004	0.0004	0.0006	0.0003	0.0004	0.0001	0.0004	0.0003	0.0003
PROBES	15	THRU	24	0.0002	0.0004	0.0004	0.0002	0.0004	0.0003	0.0004	0.0004	-0.0005
PROBES	25	THRU	32	0.0004	0.0002	0.0016	-0.0013	0.0004	-0.0012	0.0002	0.0002	0.0005
PROBES	33	THRU	40	0.0003	0.0003	-0.0005	-0.0012	0.0006	0.0002	0.0002	0.0008	0.0004
PROBES	41	THRU	48	0.0003	0.0003	0.0004	0.0002	0.0004	0.0009	0.0005	0.0003	0.0003
PROBES	49	THRU	56	-0.0008	-0.0005	0.0004	0.0003	-0.0001	-0.0018	0.0002	0.0002	0.0029
PROBES	57	THRU	64	-0.0002	0.0077	0.0003	0.0003	0.0004	0.0003	0.0003	0.0003	0.0102
PROBES	65	THRU	72	0.0004	0.0011	0.0007	0.0004	0.0023	0.0002	0.0006	0.0005	0.0005
PROBES	73	THRU	80	0.0004	0.0001	0.0001	0.0004	0.0002	0.0031	0.0006	0.0001	0.0001
PROBES	81	THRU	88	0.0034	0.0086	0.0009	0.0028	-0.0000	0.0102	0.0151	0.0364	0.0469
PROBES	89	THRU	96	0.0210	0.0341	0.0152	0.0158	0.0276	0.0517	0.0594	0.0469	0.0469
PROBES	97	THRU	104	0.0026	0.0004	0.0001	-0.0000	-0.0005	0.0005	-0.0012	-0.0001	-0.0001
PROBES	105	THRU	112	0.0003	0.0006	-0.0009	0.0003	0.0005	0.0002	0.0004	0.0003	0.0003
PROBES	113	THRU	120	0.0002	-0.0007	0.0039	0.0169	0.0273	0.0227	0.0157	0.0071	0.0071
PROBES	121	THRU	126	-0.0001	0.0001	0.0011	0.0002	0.0002	0.0087			

AXIAL POSITION # 4, AXIAL LOCATION = 24.00 INCHES, SALT OBSERVED = 3.0041 G-SALT/LBM-WATER, SALT MISSED = 0.0008 G-SALT/LBM-WATER

PROBES	1	THRU	8	0.0004	0.0003	0.0006	0.0006	0.0001	0.0002	0.0006	0.0007	0.0007
PROBES	9	THRU	16	0.0005	0.0004	0.0006	0.0003	0.0005	0.0004	0.0004	0.0003	0.0003
PROBES	17	THRU	24	0.0002	0.0003	0.0004	0.0003	0.0005	0.0004	0.0004	0.0004	-0.0001
PROBES	25	THRU	32	0.0004	0.0005	0.0016	-0.0017	0.0004	-0.0012	0.0002	0.0002	0.0002
PROBES	33	THRU	40	-0.0001	0.0003	-0.0005	-0.0006	0.0005	0.0002	0.0006	0.0004	0.0004
PROBES	41	THRU	48	0.0003	-0.0001	0.0004	0.0003	0.0000	0.0008	0.0008	0.0003	0.0003
PROBES	49	THRU	56	-0.0007	-0.0009	0.0004	0.0003	-0.0006	-0.0023	0.0003	0.0028	0.0028
PROBES	57	THRU	64	0.0003	0.0090	0.0002	0.0002	0.0003	0.0003	-0.0009	0.0123	0.0123
PROBES	65	THRU	72	0.0011	0.0015	0.0007	0.0005	0.0061	0.0003	0.0004	0.0003	0.0003
PROBES	73	THRU	80	0.0087	0.0001	0.0005	0.0004	-0.0001	0.0016	0.0004	0.0001	0.0001
PROBES	81	THRU	88	0.0032	0.0074	-0.0003	-0.0005	0.0002	0.0213	0.0238	0.0443	0.0443
PROBES	89	THRU	96	0.0216	0.0240	0.0045	0.0337	0.0537	0.0713	0.0671	0.0309	0.0309
PROBES	97	THRU	104	0.0004	0.0004	0.0001	0.0001	-0.0001	0.0005	-0.0012	-0.0005	-0.0005
PROBES	105	THRU	112	0.0003	0.0007	-0.0017	0.0003	0.0005	0.0002	0.0004	0.0002	0.0002
PROBES	113	THRU	120	0.0003	-0.0008	0.0159	0.0253	0.0196	0.0037	0.0076	0.0001	-0.0001
PROBES	121	THRU	126	0.0005	0.0000	0.0007	0.0002	0.0002	0.0149			

AXIAL POSITION # 5, AXIAL LOCATION = 23.00 INCHES, SALT OBSERVED = 0.0039 G-SALT/LBM-WATER, SALT MISSED = 0.0010 G-SALT/LBM-WATER

PROBES	1	THRU	8	0.0005	0.0006	-0.0000	0.0001	0.0003	0.0002	0.0004	0.0005	0.0005
PROBES	9	THRU	16	0.0005	0.0004	0.0006	0.0003	0.0005	0.0004	0.0004	0.0003	0.0003
PROBES	17	THRU	24	0.0002	0.0003	0.0004	0.0003	0.0005	0.0004	0.0029	-0.0009	-0.0009
PROBES	25	THRU	32	0.0005	0.0003	0.0023	-0.0013	0.0004	-0.0012	0.0002	0.0001	0.0001
PROBES	33	THRU	40	-0.0001	0.0001	-0.0026	-0.0017	0.0006	0.0002	0.0006	0.0004	0.0004
PROBES	41	THRU	48	0.0003	0.0003	0.0004	0.0002	0.0000	0.0010	0.0006	0.0003	0.0003
PROBES	49	THRU	56	-0.0008	0.0003	0.0004	0.0003	-0.0006	-0.0018	0.0002	0.0028	0.0028
PROBES	57	THRU	64	0.0006	0.0099	0.0003	0.0003	0.0003	0.0003	-0.0005	0.0119	0.0119
PROBES	65	THRU	72	0.0006	0.0007	0.0007	0.0005	0.0030	0.0002	0.0005	0.0003	0.0003
PROBES	73	THRU	80	0.0092	0.0001	0.0005	0.0004	0.0000	0.0019	0.0004	0.0001	0.0001
PROBES	81	THRU	88	0.0037	0.0093	-0.0002	-0.0003	0.0001	0.0203	0.0671	0.0472	0.0472
PROBES	89	THRU	96	0.0234	0.0285	0.0042	0.0304	0.0491	0.0679	0.0671	0.0309	0.0309
PROBES	97	THRU	104	0.0013	0.0004	0.0001	0.0001	-0.0001	0.0005	-0.0012	-0.0001	-0.0001
PROBES	105	THRU	112	0.0003	0.0007	-0.0017	0.0003	0.0004	0.0002	0.0004	0.0002	0.0002
PROBES	113	THRU	120	0.0002	-0.0008	0.0120	0.0221	0.0139	0.0023	0.0071	-0.0005	-0.0005
PROBES	121	THRU	126	0.0007	0.0000	0.0005	0.0002	0.0002	0.0098			

AXIAL POSITION # 6, AXIAL LOCATION = 22.00 INCHES, SALT OBSERVED = 0.0042 G-SALT/LBM-WATER, SALT MISSED = 0.0007 G-SALT/LBM-WATER

PROBES	1	THRU	8	0.0007	-0.0013	0.0000	0.0003	0.0002	0.0002	0.0004	0.0005	0.0005
PROBES	9	THRU	16	0.0005	0.0004	0.0006	0.0003	0.0005	0.0004	0.0004	0.0003	0.0003
PROBES	17	THRU	24	0.0002	0.0003	0.0003	0.0002	0.0005	0.0004	0.0004	-0.0009	-0.0009

AXIAL POSITION # 7, AXIAL LOCATION = 21.00 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBN-WATER, SALT MISSED = 0.0013 G-SALT/LBN-WATER									
PROBES 25 THRU 32	0.0004	0.0005	0.0016	-0.0013	0.0004	-0.0012	0.0004	0.0001	0.0001
PROBES 33 THRU 40	-0.0001	0.0001	-0.0026	-0.0017	0.0007	0.0002	0.0006	0.0006	0.0004
PROBES 41 THRU 48	0.0003	0.0003	0.0004	0.0002	0.0000	0.0010	0.0006	0.0003	0.0003
PROBES 49 THRU 56	-0.0005	-0.0014	0.0004	0.0004	-0.0006	-0.0018	-0.0013	0.0028	0.0028
PROBES 57 THRU 64	-0.0005	0.0002	0.0004	0.0004	0.0003	0.0003	0.0004	0.0003	0.0003
PROBES 65 THRU 72	0.0001	0.0011	0.0036	0.0004	0.0010	0.0003	0.0004	0.0003	0.0003
PROBES 73 THRU 80	0.0001	0.0001	0.0005	0.0004	-0.0001	0.0010	0.0003	0.0003	0.0002
PROBES 81 THRU 88	0.0017	0.0080	-0.0003	0.0012	0.0001	0.0005	0.0003	0.0002	0.0002
PROBES 89 THRU 96	0.0023	0.0358	0.0101	0.0148	0.0370	0.0618	0.0130	0.0434	0.0434
PROBES 97 THRU 104	0.0004	0.0004	0.0001	0.0001	-0.0001	0.0005	-0.0012	0.0600	0.0600
PROBES 105 THRU 112	0.0003	0.0007	-0.0017	0.0003	0.0004	0.0002	-0.0012	-0.0001	-0.0001
PROBES 113 THRU 120	0.0002	-0.0004	0.0075	0.0003	0.0004	0.0002	0.0004	0.0002	0.0002
PROBES 121 THRU 126	0.0005	0.0000	0.0017	0.0002	0.0292	0.0094	0.0111	-0.0001	-0.0001

AXIAL POSITION # 8, AXIAL LOCATION = 20.00 INCHES, SALT OBSERVED = 0.0036 G-SALT/LBN-WATER, SALT MISSED = 0.0014 G-SALT/LBN-WATER									
PROBES 1 THRU 8	0.0006	-0.0021	-0.0000	0.0003	0.0002	0.0002	0.0002	0.0007	0.0007
PROBES 9 THRU 16	0.0005	0.0005	0.0008	0.0003	0.0005	0.0001	0.0004	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004	-0.0009
PROBES 25 THRU 32	0.0004	0.0005	0.0016	-0.0021	0.0004	0.0003	0.0003	0.0002	0.0002
PROBES 33 THRU 40	-0.0001	0.0003	-0.0005	-0.0006	0.0005	0.0002	0.0006	0.0004	0.0004
PROBES 41 THRU 48	0.0003	0.0003	0.0004	0.0002	0.0000	0.0010	0.0006	0.0006	0.0004
PROBES 49 THRU 56	-0.0005	-0.0014	0.0004	0.0004	-0.0006	-0.0018	0.0002	0.0006	0.0003
PROBES 57 THRU 64	-0.0002	0.0028	0.0001	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003
PROBES 65 THRU 72	0.0002	-0.0001	0.0004	0.0004	0.0003	0.0002	0.0003	0.0003	0.0003
PROBES 73 THRU 80	0.0007	0.0002	0.0004	0.0004	-0.0001	-0.0001	0.0003	0.0003	0.0003
PROBES 81 THRU 88	0.0006	0.0006	-0.0004	0.0002	0.0001	0.0001	0.0003	0.0003	0.0003
PROBES 89 THRU 96	0.0153	0.0296	0.0094	0.0072	0.0251	0.0461	0.0827	0.0315	0.0315
PROBES 97 THRU 104	0.0004	0.0004	0.0001	0.0001	-0.0005	0.0005	-0.0012	0.0529	0.0529
PROBES 105 THRU 112	0.0003	0.0004	-0.0009	0.0003	0.0004	0.0002	0.0004	-0.0001	-0.0001
PROBES 113 THRU 120	0.0003	-0.0003	0.0046	0.0233	0.0322	0.0140	0.0011	0.0002	0.0002
PROBES 121 THRU 126	0.0005	0.0000	0.0012	0.0002	0.0002	0.0119	0.0111	0.0011	0.0011

AXIAL POSITION # 9, AXIAL LOCATION = 19.00 INCHES, SALT OBSERVED = 0.0033 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER									
PROBES 1 THRU 8	0.0004	0.0010	-0.0000	0.0003	0.0002	0.0002	0.0004	0.0005	0.0005
PROBES 9 THRU 16	0.0005	0.0004	0.0006	0.0003	0.0005	0.0004	0.0004	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0002	0.0003	0.0002	0.0005	0.0004	0.0004	-0.0009	0.0003
PROBES 25 THRU 32	0.0005	0.0003	0.0023	-0.0013	0.0004	-0.0012	0.0002	0.0002	0.0002
PROBES 33 THRU 40	-0.0001	0.0003	-0.0005	-0.0006	0.0005	0.0002	0.0006	0.0004	0.0004
PROBES 41 THRU 48	0.0003	0.0003	0.0004	0.0003	0.0000	0.0008	0.0008	0.0004	0.0004
PROBES 49 THRU 56	-0.0006	-0.0001	0.0004	0.0004	-0.0006	-0.0023	0.0003	0.0029	0.0029
PROBES 57 THRU 64	-0.0004	0.0071	0.0002	0.0004	0.0003	0.0003	-0.0013	0.0096	0.0096
PROBES 65 THRU 72	0.0002	-0.0010	0.0003	0.0004	0.0014	0.0002	0.0004	0.0004	0.0004
PROBES 73 THRU 80	0.0051	0.0001	0.0005	0.0004	-0.0002	-0.0005	0.0003	0.0002	0.0002
PROBES 81 THRU 88	0.0021	0.0063	-0.0004	-0.0007	0.0004	0.0157	0.0218	0.0449	0.0449
PROBES 89 THRU 96	0.0203	0.0265	0.0027	0.0222	0.0461	0.0655	0.0716	0.0369	0.0369
PROBES 97 THRU 104	-0.0001	0.0004	0.0001	0.0003	0.0003	0.0005	-0.0012	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0004	-0.0009	0.0003	0.0005	0.0002	0.0002	0.0002	0.0002
PROBES 113 THRU 120	0.0002	-0.0007	0.0132	0.0230	0.0109	0.0016	0.0051	-0.0001	-0.0001
PROBES 121 THRU 126	0.0005	-0.0000	0.0017	0.0002	0.0002	0.0078	0.0006	0.0006	0.0003

AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED = 0.0033 G-SALT/LBN-WATER, SALT MISSED = 0.0016 G-SALT/LBN-WATER									
PROBES 1 THRU 8	0.0004	0.0003	-0.0001	0.0003	0.0002	0.0002	0.0005	0.0008	0.0008
PROBES 9 THRU 16	0.0005	0.0005	0.0008	0.0003	0.0005	0.0004	0.0004	0.0003	0.0003
PROBES 17 THRU 24	0.0002	0.0002	0.0002	0.0002	0.0004	0.0003	0.0004	-0.0009	-0.0009
PROBES 25 THRU 32	0.0005	0.0003	-0.0003	-0.0013	0.0004	-0.0012	0.0002	0.0001	0.0001
PROBES 33 THRU 40	-0.0001	0.0003	-0.0005	-0.0007	0.0007	0.0002	0.0006	0.0006	0.0006
PROBES 41 THRU 48	0.0003	0.0003	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
PROBES 49 THRU 56	-0.0006	-0.0001	0.0004	0.0004	-0.0006	-0.0023	0.0003	0.0029	0.0029
PROBES 57 THRU 64	-0.0004	0.0071	0.0002	0.0004	0.0003	0.0003	-0.0013	0.0096	0.0096
PROBES 65 THRU 72	0.0002	-0.0010	0.0003	0.0004	0.0014	0.0002	0.0004	0.0004	0.0004
PROBES 73 THRU 80	0.0051	0.0001	0.0005	0.0004	-0.0002	-0.0005	0.0003	0.0002	0.0002
PROBES 81 THRU 88	0.0021	0.0063	-0.0004	-0.0007	0.0004	0.0157	0.0218	0.0449	0.0449
PROBES 89 THRU 96	0.0203	0.0265	0.0027	0.0222	0.0461	0.0655	0.0716	0.0369	0.0369
PROBES 97 THRU 104	-0.0001	0.0004	0.0001	0.0003	0.0003	0.0005	-0.0012	-0.0001	-0.0001
PROBES 105 THRU 112	0.0003	0.0004	-0.0009	0.0003	0.0005	0.0002	0.0002	0.0002	0.0002
PROBES 113 THRU 120	0.0002	-0.0007	0.0132	0.0230	0.0109	0.0016	0.0051	-0.0001	-0.0001
PROBES 121 THRU 126	0.0005	-0.0000	0.0017	0.0002	0.0002	0.0078	0.0006	0.0006	0.0003

PROBS	49 THRU	56	-0.0006	0.0003	0.0003	0.0004	-0.0006	-0.0023	0.0003	0.0029
PROBS	57 THRU	64	-0.0005	0.0002	0.0004	0.0004	0.0003	0.0003	-0.0017	0.0099
PROBS	65 THRU	72	0.0003	0.0008	0.0004	0.0004	0.0036	0.0002	0.0007	0.0003
PROBS	73 THRU	80	0.0049	0.0004	0.0004	0.0004	-0.0001	0.0013	0.0004	0.0002
PROBS	81 THRU	88	0.0013	-0.0004	-0.0006	-0.0006	0.0003	0.0148	0.0190	0.0393
PROBS	89 THRU	96	0.0153	0.0009	0.0031	0.0031	0.0545	0.0618	0.0541	0.0258
PROBS	97 THRU	104	0.0004	0.0001	0.0001	0.0001	-0.0005	0.0005	-0.0012	-0.0001
PROBS	105 THRU	112	0.0033	-0.0009	0.0003	0.0003	0.0005	0.0002	0.0002	0.0002
PROBS	113 THRU	120	0.0002	-0.0007	0.0016	0.0016	0.0007	0.0004	0.0004	0.0003
PROBS	121 THRU	126	0.0006	-0.0000	0.0008	0.0002	0.0002	0.0001		

AXIAL POSITION # 10, AXIAL LOCATION = 18.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBN-WATER, SALT MISSED =0.0014 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0004	0.0003	-0.0000	0.0003	0.0001	0.0002	0.0006	0.0007
PROBS	9 THRU	16	0.0005	0.0004	0.0006	0.0003	0.0004	0.0001	0.0004	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0005	0.0033	-0.0009
PROBS	25 THRU	32	0.0004	0.0005	-0.0016	-0.0009	0.0003	-0.0001	0.0003	0.0002
PROBS	33 THRU	40	-0.0001	0.0001	-0.0026	-0.0017	0.0007	0.0002	0.0006	0.0004
PROBS	41 THRU	48	0.0003	0.0003	0.0004	0.0002	0.0000	0.0010	0.0006	0.0003
PROBS	49 THRU	56	-0.0004	-0.0005	0.0004	0.0004	-0.0006	-0.0018	0.0002	0.0029
PROBS	57 THRU	64	-0.0004	0.0025	0.0001	0.0005	0.0003	0.0003	-0.0001	0.0051
PROBS	65 THRU	72	0.0002	-0.0001	0.0004	0.0004	0.0004	0.0002	0.0005	0.0003
PROBS	73 THRU	80	0.0013	0.0002	0.0006	0.0003	-0.0001	0.0006	0.0004	0.0003
PROBS	81 THRU	88	0.0036	0.0030	-0.0003	-0.0007	0.0003	0.0060	0.0109	0.0384
PROBS	89 THRU	96	0.0168	0.0279	0.0049	0.0105	0.0323	0.0598	0.0321	0.0567
PROBS	97 THRU	104	0.0013	0.0004	0.0001	0.0001	-0.0008	0.0003	-0.0008	-0.0022
PROBS	105 THRU	112	0.0003	0.0006	-0.0009	0.0003	0.0005	0.0003	0.0003	0.0003
PROBS	113 THRU	120	0.0002	-0.0002	0.0077	0.0258	0.0199	0.0032	0.0066	-0.0001
PROBS	121 THRU	126	0.0005	0.0000	0.0012	0.0002	0.0002	0.0100		

AXIAL POSITION # 11, AXIAL LOCATION = 17.00 INCHES, SALT OBSERVED =0.0035 G-SALT/LBN-WATER, SALT MISSED =0.0014 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0006	-0.0025	-0.0001	0.0005	0.0002	0.0002	0.0005	0.0008
PROBS	9 THRU	16	0.0005	0.0005	0.0008	0.0003	0.0005	0.0004	0.0000	0.0003
PROBS	17 THRU	24	0.0002	0.0002	0.0004	0.0004	0.0004	0.0003	0.0004	-0.0009
PROBS	25 THRU	32	0.0005	0.0004	0.0023	-0.0013	0.0004	-0.0012	0.0002	0.0001
PROBS	33 THRU	40	-0.0001	0.0001	-0.0026	-0.0017	0.0007	0.0002	0.0006	0.0004
PROBS	41 THRU	48	0.0003	0.0003	0.0004	0.0003	0.0000	0.0008	0.0008	0.0004
PROBS	49 THRU	56	0.0003	-0.0014	0.0004	0.0004	-0.0006	-0.0023	0.0003	0.0031
PROBS	57 THRU	64	-0.0000	-0.0001	0.0002	0.0005	0.0003	0.0003	-0.0009	0.0003
PROBS	65 THRU	72	0.0003	-0.0005	0.0007	0.0004	0.0002	0.0003	0.0006	0.0004
PROBS	73 THRU	80	-0.0000	0.0003	0.0006	0.0003	0.0002	0.0003	0.0004	0.0004
PROBS	81 THRU	88	0.0003	0.0006	-0.0002	-0.0005	0.0003	0.0014	0.0004	0.0004
PROBS	89 THRU	96	0.0101	0.0257	0.0052	0.0017	0.0225	0.0465	0.1037	0.0272
PROBS	97 THRU	104	-0.0001	0.0004	0.0001	0.0003	-0.0008	0.0005	-0.0012	-0.0005
PROBS	105 THRU	112	0.0003	0.0007	-0.0017	0.0003	0.0006	0.0003	0.0003	0.0003
PROBS	113 THRU	120	0.0002	-0.0001	0.0032	0.0330	0.0072	0.0071	0.0003	0.0003
PROBS	121 THRU	126	0.0005	0.0000	0.0014	0.0002	0.0002	0.0187	0.0071	-0.0001

AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBN-WATER, SALT MISSED =0.0013 G-SALT/LBN-WATER

PROBS	1 THRU	8	0.0004	-0.0001	-0.0000	0.0003	0.0002	0.0002	0.0004	0.0005
PROBS	9 THRU	16	0.0005	0.0005	0.0006	0.0003	0.0005	0.0004	0.0004	0.0003
PROBS	17 THRU	24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0003	0.0004	-0.0009
PROBS	25 THRU	32	0.0005	0.0003	0.0006	-0.0017	0.0003	-0.0001	0.0003	0.0002
PROBS	33 THRU	40	-0.0001	0.0001	-0.0026	-0.0017	0.0007	0.0002	0.0003	0.0004
PROBS	41 THRU	48	0.0003	0.0003	0.0004	0.0003	0.0000	0.0010	0.0006	0.0003
PROBS	49 THRU	56	-0.0002	-0.0003	0.0004	0.0003	-0.0006	-0.0023	0.0003	0.0031
PROBS	57 THRU	64	-0.0005	0.0035	0.0001	0.0005	0.0003	0.0003	-0.0009	0.0059
PROBS	65 THRU	72	0.0002	-0.0001	0.0004	0.0004	0.0008	0.0003	0.0008	0.0004

PROBES 113 THRU 120	0.0032	-0.0001	0.0032	0.0330	0.0344	0.0072	0.0371	-0.0001
PROBES 121 THRU 126	0.0005	0.0030	0.0014	0.0002	0.0002	0.0187		
AXIAL POSITION # 12, AXIAL LOCATION = 16.00 INCHES, SALT OBSERVED =0.0036 G-SALT/LBM-WATER, SALT MISSED =0.0013 G-SALT/LBM-WATER								
PROBES 1 THRU 8	0.0004	-0.0001	-0.0000	0.0003	0.0002	0.0002	0.0004	0.0005
PROBES 9 THRU 16	0.0005	0.0004	0.0006	0.0003	0.0005	0.0004	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0003	0.0002	0.0004	0.0003	0.0004	-0.0003
PROBES 25 THRU 32	0.0005	0.0003	0.0006	0.0002	0.0003	-0.0001	0.0003	0.0002
PROBES 33 THRU 40	-0.0001	0.0001	-0.0006	-0.0017	0.0007	0.0002	0.0006	0.0004
PROBES 41 THRU 48	0.0003	0.0004	0.0004	0.0002	0.0000	0.0010	0.0006	0.0003
PROBES 49 THRU 56	-0.0002	-0.0001	0.0004	0.0003	-0.0006	-0.0023	0.0003	0.0031
PROBES 57 THRU 64	-0.0005	0.0035	0.0001	0.0005	0.0003	0.0003	-0.0004	0.0059
PROBES 65 THRU 72	0.0002	-0.0001	0.0004	0.0004	0.0008	0.0008	0.0004	0.0004
PROBES 73 THRU 80	0.0021	0.0002	0.0004	0.0004	0.0002	-0.0008	0.0004	0.0003
PROBES 81 THRU 88	0.0007	0.0040	-0.0003	-0.0006	0.0005	0.0110	0.0200	0.0487
PROBES 89 THRU 96	0.0161	0.0024	0.0012	0.0220	0.0572	0.0834	0.0875	0.0372
PROBES 97 THRU 104	0.0008	0.0004	0.0001	0.0002	-0.0005	0.0005	-0.0012	-0.0001
PROBES 105 THRU 112	0.0004	0.0006	-0.0009	0.0003	0.0006	0.0003	0.0003	0.0003
PROBES 113 THRU 120	0.0002	-0.0005	0.0159	0.0255	0.0044	0.0001	0.0325	0.0003
PROBES 121 THRU 126	0.0007	-0.0000	0.0012	0.0002	0.0002	0.0076		
AXIAL POSITION # 13, AXIAL LOCATION = 15.00 INCHES, SALT OBSERVED =0.0033 G-SALT/LBM-WATER, SALT MISSED =0.0016 G-SALT/LBM-WATER								
PROBES 1 THRU 8	0.0004	0.0003	0.0000	0.0002	0.0004	0.0003	0.0005	0.0039
PROBES 9 THRU 16	0.0005	0.0005	0.0010	0.0004	0.0003	0.0001	0.0004	0.0003
PROBES 17 THRU 24	0.0002	0.0001	0.0004	0.0002	0.0005	0.0004	-0.0001	-0.0005
PROBES 25 THRU 32	0.0004	0.0005	0.0016	-0.0021	0.0004	0.0003	0.0003	0.0002
PROBES 33 THRU 40	-0.0001	0.0003	-0.0005	-0.0012	0.0002	0.0002	0.0006	0.0004
PROBES 41 THRU 48	0.0003	0.0006	0.0004	-0.0003	0.0000	0.0008	0.0009	0.0004
PROBES 49 THRU 56	0.0003	-0.0005	0.0004	0.0004	-0.0006	-0.0023	0.0003	0.0031
PROBES 57 THRU 64	-0.0004	0.0025	0.0002	0.0006	0.0003	0.0003	-0.0009	0.0054
PROBES 65 THRU 72	0.0002	-0.0010	0.0004	0.0004	0.0004	0.0004	0.0006	0.0034
PROBES 73 THRU 80	0.0006	0.0002	0.0006	0.0003	0.0000	0.0010	0.0004	0.0005
PROBES 81 THRU 88	0.0004	0.0009	-0.0001	-0.0004	0.0007	0.0119	0.0137	0.0361
PROBES 89 THRU 96	0.0080	0.0099	-0.0002	0.0329	0.0707	0.0768	0.0671	0.0175
PROBES 97 THRU 104	-0.0006	0.0004	0.0001	0.0003	-0.0005	0.0005	-0.0012	-0.0001
PROBES 105 THRU 112	0.0004	0.0007	-0.0017	0.0003	0.0006	0.0003	0.0004	0.0003
PROBES 113 THRU 120	0.0002	-0.0006	0.0236	0.0281	0.0032	0.0001	0.0047	-0.0001
PROBES 121 THRU 126	0.0005	0.0000	0.0008	0.0002	0.0002	0.0074		
AXIAL POSITION # 14, AXIAL LOCATION = 14.00 INCHES, SALT OBSERVED =0.0032 G-SALT/LBM-WATER, SALT MISSED =0.0017 G-SALT/LBM-WATER								
PROBES 1 THRU 8	0.0010	-0.0030	-0.0002	0.0015	0.0010	0.0004	0.0015	0.0013
PROBES 9 THRU 16	0.0006	0.0012	0.0014	0.0013	0.0008	0.0003	0.0005	0.0004
PROBES 17 THRU 24	0.0004	0.0005	0.0005	0.0004	0.0009	0.0008	-0.0011	-0.0013
PROBES 25 THRU 32	0.0007	0.0011	-0.0008	-0.0025	0.0012	-0.0033	0.0005	0.0006
PROBES 33 THRU 40	-0.0036	-0.0014	-0.0004	-0.0060	0.0011	0.0002	0.0013	0.0013
PROBES 41 THRU 48	0.0004	-0.0025	0.0008	0.0013	0.0001	0.0011	0.0016	0.0008
PROBES 49 THRU 56	0.0005	-0.0037	0.0005	0.0009	-0.0024	-0.0090	0.0011	0.0052
PROBES 57 THRU 64	0.0016	-0.0022	0.0001	0.0012	0.0007	0.0003	-0.0041	0.0010
PROBES 65 THRU 72	0.0005	-0.0029	0.0001	0.0006	0.0002	0.0006	0.0014	0.0016
PROBES 73 THRU 80	0.0001	0.0005	0.0015	-0.0004	0.0005	-0.0025	0.0007	0.0006
PROBES 81 THRU 88	0.0005	0.0002	0.0007	-0.0004	0.0005	0.0058	0.0099	0.0467
PROBES 89 THRU 96	0.0130	0.0199	0.0012	0.0066	0.0454	0.0900	0.1251	0.0539
PROBES 97 THRU 104	-0.0033	0.0005	0.0005	0.0002	-0.0038	0.0012	-0.0048	-0.0051
PROBES 105 THRU 112	0.0008	0.0011	-0.0035	0.0009	0.0013	0.0005	0.0006	0.0004
PROBES 113 THRU 120	0.0005	0.0007	0.0079	0.0321	0.0081	0.0001	0.0017	-0.0042
PROBES 121 THRU 126	0.0013	0.0001	0.0021	0.0004	0.0005	0.0078		

AXIAL POSITION # 15, AXIAL LOCATION = 13.00 INCHES, SALT OBSERVED = 0.0022 G-SALT/LBM-WATER, SALT MISSED = 0.0027 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0010	-0.0030	-0.0002	0.0015	0.0007	0.0006	0.0018	0.0011
PROBES 9 THRU 16	0.0008	0.0008	0.0012	0.0010	0.0003	0.0003	0.0005	0.0004
PROBES 17 THRU 24	0.0004	0.0003	0.0005	0.0003	0.0007	0.0006	-0.0011	-0.0013
PROBES 25 THRU 32	0.0007	0.0011	-0.0008	-0.0030	0.0012	-0.0037	0.0006	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0044	-0.0053	0.0010	0.0002	0.0013	0.0013
PROBES 41 THRU 48	0.0006	-0.0021	0.0011	0.0022	0.0002	0.0013	0.0026	0.0008
PROBES 49 THRU 56	0.0007	-0.0057	0.0006	0.0010	-0.0038	-0.0075	0.0014	0.0057
PROBES 57 THRU 64	0.0013	-0.0047	0.0002	0.0012	0.0009	0.0003	-0.0041	-0.0022
PROBES 65 THRU 72	0.0004	-0.0029	0.0011	0.0006	0.0004	0.0005	0.0011	0.0009
PROBES 73 THRU 80	0.0005	0.0004	0.0013	0.0004	0.0009	-0.0056	0.0010	0.0012
PROBES 81 THRU 88	0.0013	-0.0003	0.0008	0.0003	0.0007	0.0004	0.0013	0.00170
PROBES 89 THRU 96	0.0042	0.0016	0.0008	-0.0009	0.0007	0.0004	0.0013	0.0045
PROBES 97 THRU 104	-0.0016	0.0007	0.0005	0.0003	-0.0038	0.0017	-0.0053	-0.0061
PROBES 105 THRU 112	0.0008	0.0011	-0.0035	0.0009	0.0011	0.0005	0.0004	0.0005
PROBES 113 THRU 120	0.0005	0.0010	-0.0002	0.0284	0.0163	0.0002	-0.0006	0.0004
PROBES 121 THRU 126	0.0017	0.0002	0.0021	0.0004	0.0005	0.0119		

AXIAL POSITION # 16, AXIAL LOCATION = 12.00 INCHES, SALT OBSERVED = 0.0027 G-SALT/LBM-WATER, SALT MISSED = 0.0022 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0010	-0.0025	-0.0001	0.0012	0.0009	0.0005	0.0013	0.0012
PROBES 9 THRU 16	0.0010	0.0008	0.0012	0.0013	0.0008	0.0005	0.0008	0.0005
PROBES 17 THRU 24	0.0003	0.0005	0.0005	0.0004	0.0008	0.0008	-0.0011	-0.0031
PROBES 25 THRU 32	0.0010	0.0012	-0.0020	-0.0034	0.0013	-0.0047	0.0006	0.0008
PROBES 33 THRU 40	-0.0036	0.0011	-0.0049	-0.0035	0.0012	0.0002	0.0014	0.0014
PROBES 41 THRU 48	0.0004	-0.0025	0.0009	0.0015	0.0011	0.0011	0.0018	0.0007
PROBES 49 THRU 56	0.0007	-0.0042	0.0006	0.0010	-0.0028	-0.0054	0.0009	0.0047
PROBES 57 THRU 64	0.0016	-0.0037	0.0001	0.0012	0.0007	0.0003	-0.0041	-0.0027
PROBES 65 THRU 72	0.0005	-0.0029	0.0011	0.0006	0.0003	0.0004	0.0012	0.0018
PROBES 73 THRU 80	0.0001	0.0003	0.0013	0.0004	0.0008	-0.0029	0.0010	0.0006
PROBES 81 THRU 88	0.0009	-0.0003	0.0009	0.0002	0.0007	0.0009	0.0034	0.0186
PROBES 89 THRU 96	0.0024	0.0071	-0.0003	0.0296	0.0916	0.0385	0.0921	0.0203
PROBES 97 THRU 104	-0.0016	0.0005	0.0005	0.0002	-0.0038	0.0015	-0.0053	-0.0056
PROBES 105 THRU 112	0.0007	0.0039	-0.0026	0.0009	0.0010	0.0004	0.0008	0.0004
PROBES 113 THRU 120	0.0005	0.0006	0.0176	0.0204	0.0003	0.0004	0.0013	-0.0037
PROBES 121 THRU 126	0.0009	0.0002	0.0017	0.0003	0.0005	0.0006		

AXIAL POSITION # 17, AXIAL LOCATION = 11.50 INCHES, SALT OBSERVED = 0.0013 G-SALT/LBM-WATER, SALT MISSED = 0.0036 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0009	-0.0021	-0.0002	0.0014	0.0009	0.0004	0.0013	0.0012
PROBES 9 THRU 16	0.0011	0.0001	0.0011	0.0009	0.0005	0.0004	0.0004	0.0004
PROBES 17 THRU 24	0.0004	0.0003	0.0006	0.0005	0.0007	0.0008	-0.0021	-0.0017
PROBES 25 THRU 32	0.0006	0.0008	-0.0012	-0.0025	0.0011	-0.0029	0.0008	0.0004
PROBES 33 THRU 40	-0.0027	0.0010	-0.0035	-0.0029	0.0012	0.0002	0.0012	0.0013
PROBES 41 THRU 48	0.0005	-0.0030	0.0007	0.0016	0.0000	0.0011	0.0016	0.0037
PROBES 49 THRU 56	0.0011	-0.0037	0.0008	0.0009	-0.0043	-0.0075	0.0009	0.0047
PROBES 57 THRU 64	0.0016	0.0037	0.0001	0.0011	0.0006	0.0003	-0.0046	0.0003
PROBES 65 THRU 72	0.0006	-0.0019	0.0009	0.0006	0.0003	0.0004	0.0012	0.0014
PROBES 73 THRU 80	0.0001	0.0003	0.0013	0.0004	0.0009	-0.0038	0.0009	0.0007
PROBES 81 THRU 88	0.0006	0.0001	0.0011	0.0012	0.0007	0.0005	0.0014	0.0129
PROBES 89 THRU 96	0.0009	0.0018	0.0002	-0.0009	0.0164	0.0257	0.0406	0.0137
PROBES 97 THRU 104	-0.0033	0.0004	0.0005	0.0003	-0.0029	0.0014	-0.0056	-0.0037
PROBES 105 THRU 112	0.0008	0.0011	-0.0035	0.0009	0.0010	0.0004	0.0004	0.0004
PROBES 113 THRU 120	0.0006	0.0006	0.0207	0.0253	0.0004	0.0003	-0.0001	-0.0027
PROBES 121 THRU 126	0.0010	0.0002	0.0017	0.0003	0.0005	0.0004		

AXIAL POSITION # 18, AXIAL LOCATION = 11.00 INCHES, SALT OBSERVED = 0.0031 G-SALT/LBM-WATER, SALT MISSED = 0.0019 G-SALT/LBM-WATER

PROBES	1 THRU	8	-0.0034	-0.0002	0.0014	0.0012	0.0006	0.0017	0.0012
PROBES	9 THRU	16	0.0011	0.0012	0.0010	0.0008	0.0003	0.0005	0.0004
PROBES	17 THRU	24	0.0009	0.0005	0.0010	0.0007	0.0006	-0.0016	-0.0022
PROBES	25 THRU	32	0.0009	-0.0008	-0.0021	0.0012	-0.0033	0.0005	0.0007
PROBES	33 THRU	40	-0.0046	-0.0044	-0.0053	0.0010	0.0002	0.0013	0.0016
PROBES	41 THRU	48	0.0004	-0.0025	0.0015	0.0011	0.0011	0.0018	0.0008
PROBES	49 THRU	56	0.0009	0.0007	0.0009	-0.0024	-0.0090	0.0010	0.0052
PROBES	57 THRU	64	-0.0032	0.0001	0.0011	0.0007	0.0003	-0.0041	-0.0014
PROBES	65 THRU	72	-0.0039	0.0011	0.0006	0.0004	0.0004	0.0016	0.0014
PROBES	73 THRU	80	-0.0000	0.0004	0.0004	0.0008	-0.0029	0.0007	0.0007
PROBES	81 THRU	88	-0.0009	0.0005	0.0006	0.0012	0.0048	0.0046	0.0047
PROBES	89 THRU	96	0.0029	-0.0003	0.0252	0.0931	0.0909	0.0812	0.1155
PROBES	97 THRU	104	-0.0016	0.0005	0.0002	-0.0020	0.0017	-0.0038	-0.0046
PROBES	105 THRU	112	0.0008	-0.0026	0.0009	0.0010	0.0004	0.0008	0.0004
PROBES	113 THRU	120	0.0005	0.0328	0.0287	0.0003	0.0004	0.0013	-0.0037
PROBES	121 THRU	126	0.0009	0.0003	0.0004	0.0005	0.0006		

AXIAL POSITION # 19, AXIAL LOCATION = 10.50 INCHES, SALT OBSERVED = 0.0022 G-SALT/LBN-WATER, SALT MISSED = 0.0027 G-SALT/LBN-WATER

PROBES	1 THRU	8	-0.0043	-0.0001	0.0014	0.0012	0.0004	0.0017	0.0016
PROBES	9 THRU	16	0.0006	0.0016	0.0011	0.0006	0.0004	0.0006	0.0004
PROBES	17 THRU	24	0.0003	0.0005	0.0003	0.0006	0.0006	-0.0026	-0.0022
PROBES	25 THRU	32	0.0005	-0.0020	-0.0034	0.0011	-0.0047	0.0006	0.0007
PROBES	33 THRU	40	-0.0022	-0.0049	-0.0074	0.0010	0.0002	0.0013	0.0016
PROBES	41 THRU	48	0.0006	-0.0025	0.0026	0.0001	0.0015	0.0026	0.0008
PROBES	49 THRU	56	0.0008	-0.0047	0.0008	-0.0028	-0.0061	0.0026	0.0008
PROBES	57 THRU	64	-0.0042	0.0005	0.0014	0.0008	-0.0003	0.0011	0.0055
PROBES	65 THRU	72	-0.0013	0.0002	0.0014	0.0004	0.0003	-0.0046	-0.0001
PROBES	73 THRU	80	-0.0050	0.0010	0.0004	0.0004	0.0005	0.0015	0.0011
PROBES	81 THRU	88	0.0005	0.0011	0.0004	0.0003	-0.0025	0.0007	0.0006
PROBES	89 THRU	96	0.0016	0.0004	-0.0003	0.0011	0.0062	0.0190	0.0536
PROBES	97 THRU	104	0.0115	-0.0003	0.0053	0.0400	0.0871	0.0939	0.0224
PROBES	105 THRU	112	-0.0033	0.0003	0.0066	-0.0038	0.0012	-0.0048	-0.0041
PROBES	113 THRU	120	0.0007	-0.0040	0.0010	0.0010	0.0004	0.0006	0.0004
PROBES	121 THRU	126	0.0004	0.0007	0.0134	0.0006	0.0004	0.0004	-0.0032
PROBES	121 THRU	126	0.0012	0.0023	0.0003	0.0004	0.0009		

AXIAL POSITION # 20, AXIAL LOCATION = 10.00 INCHES, SALT OBSERVED = 0.0024 G-SALT/LBN-WATER, SALT MISSED = 0.0025 G-SALT/LBN-WATER

PROBES	1 THRU	8	-0.0039	-0.0002	0.0014	0.0010	0.0004	0.0017	0.0016
PROBES	9 THRU	16	0.0011	0.0013	0.0011	0.0006	0.0003	0.0005	0.0007
PROBES	17 THRU	24	0.0004	0.0005	0.0003	0.0007	0.0004	-0.0026	-0.0026
PROBES	25 THRU	32	0.0006	-0.0016	-0.0017	0.0012	-0.0033	0.0006	0.0006
PROBES	33 THRU	40	-0.0041	-0.0044	-0.0081	0.0012	0.0002	0.0016	0.0014
PROBES	41 THRU	48	0.0005	-0.0033	0.0018	0.0011	0.0018	0.0008	0.0008
PROBES	49 THRU	56	0.0005	0.0009	0.0006	-0.0033	-0.0061	0.0010	0.0055
PROBES	57 THRU	64	-0.0032	0.0001	0.0015	0.0008	0.0003	-0.0051	-0.0009
PROBES	65 THRU	72	-0.0024	0.0010	0.0007	0.0003	0.0004	0.0017	0.0014
PROBES	73 THRU	80	0.0004	0.0011	0.0004	0.0008	-0.0033	0.0009	0.0008
PROBES	81 THRU	88	-0.0003	0.0008	0.0003	0.0005	0.0008	0.0035	0.0323
PROBES	89 THRU	96	0.0041	-0.0003	-0.0006	0.0281	0.0812	0.1365	0.0446
PROBES	97 THRU	104	-0.0027	0.0005	0.0004	-0.0029	0.0014	-0.0048	-0.0041
PROBES	105 THRU	112	0.0007	-0.0031	0.0007	0.0010	0.0004	0.0006	0.0004
PROBES	113 THRU	120	0.0007	-0.0007	0.0247	0.0018	0.0004	0.0013	-0.0037
PROBES	121 THRU	126	0.0009	0.0019	0.0003	0.0004	0.0024		

AXIAL POSITION # 21, AXIAL LOCATION = 9.50 INCHES, SALT OBSERVED = 0.0029 G-SALT/LBN-WATER, SALT MISSED = 0.0020 G-SALT/LBN-WATER

PROBES	1 THRU	8	-0.0030	-0.0001	0.0014	0.0012	0.0004	0.0015	0.0011
PROBES	9 THRU	16	0.0009	0.0011	0.0012	0.0007	0.0003	0.0005	0.0006
PROBES	17 THRU	24	0.0002	0.0005	0.0003	0.0011	0.0005	-0.0026	-0.0013

PROBES 25 THRU 32	0.0005	0.0009	-0.0016	-0.0017	0.0012	-0.0033	0.0024	0.0006
PROBES 33 THRU 40	-0.0041	-0.0014	-0.0044	-0.0081	0.0012	0.0002	0.0016	0.0014
PROBES 41 THRU 48	0.0005	-0.0030	0.0010	0.0010	0.0030	0.0013	0.0020	0.0009
PROBES 49 THRU 56	0.0018	-0.0052	0.0006	0.0011	-0.0028	-0.0061	0.0010	0.0055
PROBES 57 THRU 64	0.0018	-0.0047	0.0002	0.0014	0.0008	0.0003	-0.0051	-0.0022
PROBES 65 THRU 72	0.0004	-0.0024	0.0010	0.0008	0.0005	0.0004	0.0015	0.0012
PROBES 73 THRU 80	0.0006	0.0004	0.0009	0.0004	0.0006	-0.0005	0.0010	0.0008
PROBES 81 THRU 88	0.0004	0.0012	0.0004	-0.0007	0.0010	0.0003	0.0010	0.0026
PROBES 89 THRU 96	0.0168	0.0434	0.0117	-0.0004	0.0144	0.0454	0.1406	0.1020
PROBES 97 THRU 104	-0.0022	0.0005	0.0003	0.0003	-0.0025	0.0015	-0.0058	-0.0051
PROBES 105 THRU 112	0.0008	0.0009	-0.0040	0.0008	0.0013	0.0007	0.0006	0.0004
PROBES 113 THRU 120	0.0005	0.0007	-0.0023	0.0272	0.0102	0.0001	0.0017	-0.0037
PROBES 121 THRU 126	0.0009	0.0001	0.0027	0.0003	0.0004	0.0043		

AXIAL POSITION # 22, AXIAL LOCATION = 9.00 INCHES, SALT OBSERVED =0.0028 G-SALT/LBN-WATER, SALT MISSED =0.0021 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0012	-0.0039	-0.0002	0.0011	0.0010	0.0004	0.0015	0.0011
PROBES 9 THRU 16	0.0007	0.0014	0.0015	0.0003	0.0007	0.0003	0.0005	0.0026
PROBES 17 THRU 24	0.0002	0.0003	0.0005	0.0003	0.0013	0.0006	-0.0011	-0.0013
PROBES 25 THRU 32	0.0005	0.0008	-0.0034	-0.0034	0.0012	-0.0033	0.0004	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0044	-0.0067	0.0013	0.0003	0.0012	0.0014
PROBES 41 THRU 48	0.0004	-0.0030	0.0008	0.0011	0.0001	0.0013	0.0020	0.0009
PROBES 49 THRU 56	0.0011	-0.0052	0.0005	0.0007	-0.0024	0.0097	0.0011	0.0052
PROBES 57 THRU 64	0.0022	-0.0047	0.0002	0.0007	0.0007	-0.0003	-0.0051	-0.0022
PROBES 65 THRU 72	0.0004	-0.0019	0.0009	0.0005	0.0004	0.0004	0.0015	0.0011
PROBES 73 THRU 80	0.0008	0.0003	0.0009	0.0004	0.0010	-0.0038	0.0010	0.0009
PROBES 81 THRU 88	0.0010	0.0008	0.0009	0.0006	0.0007	0.0003	0.0003	0.0036
PROBES 89 THRU 96	0.0019	0.0162	-0.0003	0.0009	0.0129	0.0246	0.1963	0.0930
PROBES 97 THRU 104	-0.0027	0.0005	0.0003	0.0003	-0.0029	0.0014	-0.0048	-0.0051
PROBES 105 THRU 112	0.0007	0.0007	-0.0031	0.0007	0.0010	0.0003	0.0007	0.0004
PROBES 113 THRU 120	0.0005	0.0009	-0.0004	0.0415	0.0116	0.0001	0.0013	-0.0027
PROBES 121 THRU 126	0.0010	0.0000	-0.0017	0.0003	0.0004	0.0064		

AXIAL POSITION # 23, AXIAL LOCATION = 8.50 INCHES, SALT OBSERVED =0.0022 G-SALT/LBN-WATER, SALT MISSED =0.0027 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0008	-0.0030	-0.0001	0.0015	0.0007	0.0006	0.0017	0.0012
PROBES 9 THRU 16	0.0011	0.0010	0.0011	0.0012	0.0007	0.0003	0.0005	0.0006
PROBES 17 THRU 24	0.0002	0.0003	0.0005	0.0003	0.0010	0.0005	-0.0031	-0.0017
PROBES 25 THRU 32	0.0007	0.0007	-0.0008	-0.0034	0.0012	-0.0033	0.0004	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0044	-0.0067	0.0013	0.0002	0.0014	0.0014
PROBES 41 THRU 48	0.0004	-0.0030	0.0009	0.0016	0.0000	0.0011	0.0018	0.0006
PROBES 49 THRU 56	0.0008	-0.0042	0.0006	0.0008	-0.0033	-0.0048	0.0011	0.0055
PROBES 57 THRU 64	0.0018	-0.0047	0.0002	0.0011	0.0007	0.0003	-0.0041	-0.0041
PROBES 65 THRU 72	0.0008	-0.0050	0.0010	0.0007	0.0003	0.0004	0.0015	0.0012
PROBES 73 THRU 80	0.0007	0.0004	0.0011	0.0004	0.0010	-0.0038	0.0009	0.0007
PROBES 81 THRU 88	0.0009	0.0008	0.0009	0.0011	0.0007	0.0003	0.0003	0.0162
PROBES 89 THRU 96	0.0001	0.0018	0.0003	-0.0008	0.0294	0.0708	0.1573	0.0365
PROBES 97 THRU 104	-0.0045	0.0005	-0.0003	0.0003	-0.0025	0.0014	-0.0048	-0.0046
PROBES 105 THRU 112	0.0008	0.0008	-0.0026	0.0007	0.0013	0.0006	0.0006	0.0004
PROBES 113 THRU 120	0.0004	0.0004	0.0025	0.0003	0.0003	0.0003	0.0004	-0.0032
PROBES 121 THRU 126	0.0013	0.0003	0.0023	0.0003	0.0004	0.0040		

AXIAL POSITION # 24, AXIAL LOCATION = 8.00 INCHES, SALT OBSERVED =0.0029 G-SALT/LBN-WATER, SALT MISSED =0.0020 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0008	-0.0030	-0.0001	0.0015	0.0007	0.0006	0.0017	0.0012
PROBES 9 THRU 16	0.0010	0.0007	0.0014	0.0015	0.0007	0.0003	0.0005	0.0005
PROBES 17 THRU 24	0.0003	0.0003	0.0005	0.0003	0.0010	0.0005	-0.0031	-0.0017
PROBES 25 THRU 32	0.0005	0.0009	-0.0016	-0.0013	0.0011	-0.0033	0.0004	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0040	-0.0047	0.0001	0.0003	0.0011	0.0011
PROBES 41 THRU 48	0.0004	-0.0030	0.0008	0.0011	0.0001	0.0013	0.0020	0.0009

AXIAL POSITION # 25, AXIAL LOCATION = 7.50 INCHES, SALT OBSERVED = 0.0024 G-SALT/LEH-WATER, SALT MISSED = 0.0021 G-SALT/LEH-WATER

PROBES 49 THRU 56	0.0009	-0.0052	0.0005	0.0007	-0.0024	-0.0097	0.0011	0.0055
PROBES 57 THRU 64	0.0016	-0.0042	0.0002	0.0011	0.0007	0.0003	-0.0036	-0.0027
PROBES 65 THRU 72	0.0004	-0.0024	0.0010	0.0007	0.0004	0.0004	0.0015	0.0011
PROBES 73 THRU 80	0.0004	0.0003	0.0009	0.0004	0.0008	-0.0029	0.0010	0.0009
PROBES 81 THRU 88	0.0007	-0.0003	0.0009	0.0002	0.0007	0.0004	0.0031	0.0041
PROBES 89 THRU 96	0.0033	0.0059	-0.0002	-0.0003	0.0045	0.1143	0.1834	0.0133
PROBES 97 THRU 104	-0.0027	0.0005	0.0003	0.0005	-0.0020	0.0017	-0.0038	-0.0046
PROBES 105 THRU 112	0.0008	0.0009	-0.0004	0.0008	0.0013	0.0006	0.0006	0.0004
PROBES 113 THRU 120	0.0004	0.0007	0.0049	0.0169	0.0003	0.0006	0.0004	-0.0032
PROBES 121 THRU 126	0.0013	0.0002	0.0019	0.0003	0.0004	0.0002		

AXIAL POSITION # 26, AXIAL LOCATION = 7.00 INCHES, SALT OBSERVED = 0.0163 G-SALT/LEH-WATER, SALT MISSED = -0.0114 G-SALT/LEH-WATER

PROBES 1 THRU 8	0.0010	-0.0039	-0.0002	0.0012	0.0009	0.0005	0.0013	0.0010
PROBES 9 THRU 16	0.0007	0.0007	0.0014	0.0015	0.0007	0.0003	0.0005	0.0006
PROBES 17 THRU 24	0.0002	0.0004	0.0005	0.0003	0.0012	0.0006	-0.0021	-0.0017
PROBES 25 THRU 32	0.0007	0.0007	-0.0008	-0.0034	0.0012	-0.0033	0.0004	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0040	0.0047	0.0011	0.0003	0.0011	0.0011
PROBES 41 THRU 48	0.0004	-0.0030	0.0009	0.0016	0.0000	0.0001	0.0019	0.0006
PROBES 49 THRU 56	0.0008	-0.0042	0.0006	0.0008	-0.0033	-0.0048	0.0011	0.0052
PROBES 57 THRU 64	0.0022	-0.0037	0.0002	0.0011	0.0007	0.0003	-0.0036	-0.0027
PROBES 65 THRU 72	0.0004	-0.0024	0.0010	0.0007	0.0003	0.0005	0.0013	0.0012
PROBES 73 THRU 80	0.0006	0.0004	0.0010	0.0004	0.0007	-0.0038	0.0009	0.0007
PROBES 81 THRU 88	0.0009	0.0005	0.0011	0.0012	0.0008	0.0003	0.0004	0.0159
PROBES 89 THRU 96	0.0001	0.0006	0.0006	0.0005	0.0072	0.1233	0.1470	0.0265
PROBES 97 THRU 104	-0.0027	0.0005	-0.0003	0.0003	-0.0025	0.0014	-0.0048	-0.0046
PROBES 105 THRU 112	0.0008	0.0007	-0.0026	0.0007	0.0013	0.0006	0.0006	0.0004
PROBES 113 THRU 120	0.0004	0.0006	0.0255	0.0174	0.0003	0.0002	0.0013	-0.0037
PROBES 121 THRU 126	0.0009	0.0002	0.0021	0.0004	0.0004	0.0001		

AXIAL POSITION # 27, AXIAL LOCATION = 6.50 INCHES, SALT OBSERVED = 0.0023 G-SALT/LEH-WATER, SALT MISSED = 0.0026 G-SALT/LEH-WATER

PROBES 1 THRU 8	0.0009	-0.0030	-0.0001	0.0015	0.0007	0.0006	0.0017	0.0013
PROBES 9 THRU 16	0.0009	0.0012	0.0012	0.0011	0.0005	0.0006	0.0010	0.0004
PROBES 17 THRU 24	0.0003	0.0003	0.0005	0.0003	0.0012	0.0006	-0.0021	-0.0026
PROBES 25 THRU 32	0.0005	0.0009	-0.0016	-0.0013	0.0012	-0.0033	0.0004	0.0006
PROBES 33 THRU 40	-0.0036	0.0014	-0.0044	-0.0067	0.0010	0.0002	0.0012	0.0014
PROBES 41 THRU 48	0.0005	-0.0030	0.0010	0.0008	0.0001	0.0015	0.0024	0.0009
PROBES 49 THRU 56	0.0007	-0.0052	0.0006	0.0010	-0.0024	-0.0097	0.0011	0.0055
PROBES 57 THRU 64	0.0018	-0.0047	0.0002	0.0014	0.0008	0.0003	-0.0051	-0.0022
PROBES 65 THRU 72	0.0004	-0.0024	0.0010	0.0007	0.0002	0.0005	0.0014	0.0009
PROBES 73 THRU 80	0.0008	0.0005	0.0009	0.0004	0.0010	-0.0038	0.0009	0.0007
PROBES 81 THRU 88	0.0009	0.0008	0.0008	0.0012	0.0012	0.0003	0.0009	0.0041
PROBES 89 THRU 96	0.0033	0.0003	0.0218	0.0702	0.1077	0.1183	0.0041	2.1211
PROBES 97 THRU 104	-0.0039	0.0005	0.0003	0.0006	-0.0025	0.0014	-0.0048	-0.0036
PROBES 105 THRU 112	0.0007	0.0007	-0.0031	0.0007	0.0010	0.0004	0.0006	0.0004
PROBES 113 THRU 120	0.0005	0.0006	0.0252	0.0142	0.0003	0.0004	0.0013	-0.0037
PROBES 121 THRU 126	0.0009	0.0003	0.0023	0.0003	0.0004	-0.0004		

AXIAL POSITION # 28, AXIAL LOCATION = 6.00 INCHES, SALT OBSERVED = 0.0023 G-SALT/LEH-WATER, SALT MISSED = 0.0026 G-SALT/LEH-WATER

PROBES 1 THRU 8	0.0008	-0.0030	-0.0001	0.0015	0.0005	0.0004	0.0013	0.0009
PROBES 9 THRU 16	0.0007	0.0010	0.0010	0.0012	0.0005	0.0003	0.0003	0.0004
PROBES 17 THRU 24	0.0003	0.0002	0.0004	0.0003	0.0010	0.0005	-0.0016	-0.0009
PROBES 25 THRU 32	0.0008	0.0008	-0.0005	-0.0025	0.0012	-0.0024	0.0009	0.0005
PROBES 33 THRU 40	-0.0005	0.0007	-0.0026	-0.0035	0.0011	0.0003	0.0010	0.0011
PROBES 41 THRU 48	0.0003	-0.0025	0.0007	0.0018	0.0001	0.0009	0.0010	0.0006
PROBES 49 THRU 56	0.0009	-0.0032	0.0005	0.0007	-0.0038	-0.0048	0.0009	0.0044
PROBES 57 THRU 64	0.0014	-0.0037	0.0001	0.0009	0.0005	0.0003	-0.0036	-0.0014
PROBES 65 THRU 72	0.0003	-0.0029	0.0009	0.0005	0.0004	0.0004	0.0013	0.0011

PROBES 73 THRU 80	0.0005	0.0003	0.0013	0.0004	0.0008	-0.0016	0.0007	0.0005
PROBES 81 THRU 88	0.0012	0.0009	0.0003	0.0004	0.0006	0.0003	0.0009	0.0295
PROBES 89 THRU 96	0.0001	0.0012	0.0003	-0.0009	0.0003	0.0069	0.1551	0.0248
PROBES 97 THRU 104	-0.0027	0.0004	0.0003	0.0003	-0.0038	0.0011	-0.0329	-0.0031
PROBES 105 THRU 112	0.0005	0.0009	-0.0040	0.0008	0.0010	0.0005	0.0005	0.0004
PROBES 113 THRU 120	0.0004	0.0004	0.0018	0.0003	0.0003	0.0160	0.0004	-0.0018
PROBES 121 THRU 126	0.0013	0.0003	0.0015	0.0003	0.0004	-0.0002	0.0021	-0.0018

AXIAL POSITION # 28, AXIAL LOCATION = 6.00 INCHES, SALT OBSERVED = 0.0024 G-SALT/LBN-WATER, SALT MISSED = 0.0025 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0010	-0.0034	-0.0031	0.0011	0.0009	0.0005	0.0013	0.0012
PROBES 9 THRU 16	0.0010	0.0007	0.0014	0.0015	0.0007	0.0003	0.0005	0.0006
PROBES 17 THRU 24	0.0002	0.0002	0.0005	0.0003	0.0011	0.0005	-0.0031	-0.0017
PROBES 25 THRU 32	0.0005	0.0009	-0.0012	-0.0013	0.0011	0.0003	0.0004	0.0006
PROBES 33 THRU 40	-0.0051	0.0009	-0.0035	-0.0035	0.0011	0.0003	0.0011	0.0011
PROBES 41 THRU 48	0.0004	-0.0025	0.0009	0.0016	0.0000	0.0011	0.0316	0.0006
PROBES 49 THRU 56	0.0008	-0.0042	0.0006	0.0007	-0.0024	-0.0082	0.0009	0.0049
PROBES 57 THRU 64	0.0024	-0.0037	0.0002	0.0010	0.0007	0.0003	-0.0036	-0.0031
PROBES 65 THRU 72	0.0006	-0.0015	0.0009	0.0005	0.0004	0.0004	0.0013	0.0009
PROBES 73 THRU 80	0.0009	0.0004	0.0010	0.0004	0.0007	-0.0033	0.0008	0.0007
PROBES 81 THRU 88	0.0009	0.0009	0.0007	0.0011	0.0007	0.0003	0.0003	0.0129
PROBES 89 THRU 96	0.0001	0.0010	0.0003	0.0005	0.0144	0.0717	0.2113	0.0133
PROBES 97 THRU 104	-0.0006	0.0005	-0.0003	0.0003	-0.0025	0.0014	-0.0048	-0.0046
PROBES 105 THRU 112	0.0008	0.0007	-0.0026	0.0007	0.0013	0.0006	0.0006	0.0004
PROBES 113 THRU 120	0.0004	0.0007	-0.0002	0.0193	0.0003	0.0004	0.0008	-0.0023
PROBES 121 THRU 126	0.0010	0.0004	0.0019	0.0003	0.0003	0.0009		

AXIAL POSITION # 29, AXIAL LOCATION = 5.75 INCHES, SALT OBSERVED = 0.0025 G-SALT/LBN-WATER, SALT MISSED = 0.0024 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0011	-0.0043	-0.0001	0.0015	0.0016	0.0006	0.0017	0.0012
PROBES 9 THRU 16	0.0011	0.0010	0.0014	0.0015	0.0007	0.0003	0.0005	0.0006
PROBES 17 THRU 24	0.0002	0.0002	0.0005	0.0008	0.0007	0.0006	-0.0026	-0.0013
PROBES 25 THRU 32	0.0004	0.0009	-0.0012	-0.0039	0.0009	-0.0037	0.0005	0.0007
PROBES 33 THRU 40	-0.0031	0.0009	-0.0030	-0.0041	0.0011	0.0003	0.0011	0.0014
PROBES 41 THRU 48	0.0004	-0.0017	0.0008	0.0007	0.0002	0.0011	0.0018	0.0006
PROBES 49 THRU 56	0.0009	-0.0047	0.0006	0.0007	-0.0019	-0.0090	0.0010	0.0052
PROBES 57 THRU 64	0.0020	-0.0032	0.0001	0.0014	0.0006	0.0003	-0.0041	-0.0041
PROBES 65 THRU 72	0.0008	-0.0045	0.0011	0.0007	0.0004	0.0004	0.0013	0.0009
PROBES 73 THRU 80	0.0008	0.0004	0.0008	0.0004	0.0007	-0.0025	0.0009	0.0008
PROBES 81 THRU 88	0.0014	0.0009	0.0007	0.0014	0.0009	0.0003	0.0004	0.0034
PROBES 89 THRU 96	0.0002	0.0030	0.0003	0.0009	-0.0119	0.0310	0.2476	0.0535
PROBES 97 THRU 104	-0.0027	0.0005	0.0003	0.0003	-0.0038	0.0015	-0.0043	-0.0051
PROBES 105 THRU 112	0.0007	0.0010	-0.0017	0.0009	0.0014	0.0006	0.0036	0.0003
PROBES 113 THRU 120	0.0004	0.0007	-0.0004	0.0287	0.0003	0.0004	0.0017	-0.0018
PROBES 121 THRU 126	0.0016	0.0003	0.0021	0.0004	0.0004	0.0011		

AXIAL POSITION # 30, AXIAL LOCATION = 5.50 INCHES, SALT OBSERVED = 0.0023 G-SALT/LBN-WATER, SALT MISSED = 0.0026 G-SALT/LBN-WATER

PROBES 1 THRU 8	0.0009	-0.0034	-0.0001	0.0010	0.0016	0.0005	0.0013	0.0012
PROBES 9 THRU 16	0.0010	0.0005	0.0012	0.0015	0.0005	0.0005	0.0005	0.0007
PROBES 17 THRU 24	0.0002	0.0002	0.0004	0.0004	0.0005	0.0006	-0.0026	-0.0013
PROBES 25 THRU 32	0.0004	0.0009	-0.0012	-0.0039	0.0011	-0.0047	0.0008	0.0004
PROBES 33 THRU 40	-0.0018	0.0010	-0.0049	-0.0067	0.0011	0.0003	0.0013	0.0011
PROBES 41 THRU 48	0.0004	-0.0021	0.0008	0.0007	0.0001	0.0012	0.0018	0.0007
PROBES 49 THRU 56	0.0007	-0.0042	0.0005	0.0009	-0.0043	-0.0097	0.0008	0.0049
PROBES 57 THRU 64	0.0020	-0.0032	0.0002	0.0014	0.0006	0.0003	-0.0036	-0.0027
PROBES 65 THRU 72	0.0003	-0.0034	0.0010	0.0008	0.0004	0.0004	0.0012	0.0008
PROBES 73 THRU 80	0.0009	0.0004	0.0007	0.0004	0.0008	-0.0025	0.0009	0.0007
PROBES 81 THRU 88	0.0014	0.0008	0.0009	0.0011	0.0008	0.0004	0.0005	0.0005
PROBES 89 THRU 96	0.0002	0.0004	0.0008	0.0004	0.0007	0.0004	0.0008	0.0005
PROBES 97 THRU 104	-0.0027	0.0005	0.0003	0.0003	-0.0038	0.0015	-0.0043	-0.0051
PROBES 105 THRU 112	0.0007	0.0010	-0.0017	0.0009	0.0014	0.0006	0.0036	0.0003
PROBES 113 THRU 120	0.0004	0.0007	-0.0004	0.0287	0.0003	0.0004	0.0017	-0.0018
PROBES 121 THRU 126	0.0016	0.0003	0.0021	0.0004	0.0004	0.0011		

PROBES 97 THRU 104 -0.0022 0.0005 0.0002 0.0004 -0.0020 0.0012 -0.0034 -0.0036
PROBES 105 THRU 112 0.0007 -0.0017 0.0007 0.0007 0.0013 0.0003 0.0004 0.0004
PROBES 113 THRU 120 0.0005 0.0004 -0.0031 0.0007 0.0003 0.0003 0.0017 -0.0018
PROBES 121 THRU 126 0.0013 0.0001 0.0021 0.0004 0.0003 0.0005

AXIAL POSITION # 31, AXIAL LOCATION = 5.25 INCHES, SALT OBSERVED =0.0028 G-SALT/LEH-WATER, SALT MISSED =0.0021 G-SALT/LEH-WATER

PROBES 1 THRU 8 0.0009 -0.0034 -0.0001 0.0011 0.0009 0.0005 0.0013 0.0012
PROBES 9 THRU 16 0.0011 0.0012 0.0015 0.0008 0.0011 0.0003 0.0005 0.0006
PROBES 17 THRU 24 0.0002 0.0004 0.0005 0.0011 0.0005 0.0005 -0.0031 -0.0017
PROBES 25 THRU 32 0.0005 0.0009 -0.0012 -0.0039 0.0009 -0.0042 0.0007 0.0006
PROBES 33 THRU 40 -0.0051 0.0009 -0.0030 -0.0035 0.0011 0.0011 0.0014 0.0014
PROBES 41 THRU 48 0.0004 -0.0021 0.0008 0.0010 0.0001 0.0011 0.0016 0.0007
PROBES 49 THRU 56 0.0008 -0.0042 0.0006 0.0008 0.0003 -0.0048 0.0011 0.0052
PROBES 57 THRU 64 0.0022 -0.0037 0.0002 0.0010 0.0003 0.0004 0.0011 -0.0014
PROBES 65 THRU 72 0.0003 -0.0045 0.0011 0.0008 0.0004 0.0004 0.0015 0.0011
PROBES 73 THRU 80 0.0007 0.0005 0.0008 0.0004 -0.0042 0.0009 0.0008 0.0008
PROBES 81 THRU 88 0.0009 0.0012 0.0011 0.0017 0.0011 0.0003 0.0005 0.0031
PROBES 89 THRU 96 0.0007 0.0002 0.0014 0.0022 0.0087 0.0162 0.3148 0.0263
PROBES 97 THRU 104 -0.0016 0.0006 0.0005 -0.0012 0.0017 -0.0043 -0.0041
PROBES 105 THRU 112 0.0008 0.0007 -0.0031 0.0027 0.0013 0.0006 0.0036 0.0004
PROBES 113 THRU 120 0.0006 0.0004 -0.0000 0.0124 0.0004 0.0006 0.0004 -0.0032
PROBES 121 THRU 126 0.0013 0.0002 0.0019 0.0003 0.0003 0.0035

AXIAL POSITION # 32, AXIAL LOCATION = 5.00 INCHES, SALT OBSERVED =0.0024 G-SALT/LEH-WATER, SALT MISSED =0.0025 G-SALT/LEH-WATER

PROBES 1 THRU 8 0.0009 -0.0034 -0.0001 0.0010 0.0016 0.0005 0.0011 0.0013
PROBES 9 THRU 16 0.0012 0.0012 0.0013 0.0003 0.0005 0.0005 0.0004 0.0004
PROBES 17 THRU 24 0.0002 0.0002 0.0003 0.0003 -0.0021 -0.0017 -0.0017 -0.0017
PROBES 25 THRU 32 0.0005 0.0009 -0.0017 0.0009 -0.0037 0.0004 0.0004 0.0005
PROBES 33 THRU 40 -0.0027 0.0010 -0.0023 0.0008 0.0002 0.0013 0.0014 0.0014
PROBES 41 THRU 48 0.0004 -0.0021 0.0008 0.0010 0.0001 0.0013 0.0016 0.0007
PROBES 49 THRU 56 0.0008 -0.0042 0.0006 0.0007 -0.0024 -0.0082 0.0009 0.0055
PROBES 57 THRU 64 0.0024 -0.0037 0.0002 0.0011 0.0008 0.0003 -0.0051 -0.0032
PROBES 65 THRU 72 0.0003 -0.0045 0.0011 0.0008 0.0004 0.0004 0.0015 0.0011
PROBES 73 THRU 80 0.0007 0.0005 0.0008 0.0004 0.0007 -0.0033 0.0007 0.0006
PROBES 81 THRU 88 0.0014 0.0014 0.0010 0.0017 0.0008 0.0003 0.0006 0.0003
PROBES 89 THRU 96 0.0007 0.0006 0.0009 0.0022 0.0046 0.0140 0.2619 0.0309
PROBES 97 THRU 104 -0.0022 0.0005 0.0003 0.0006 -0.0033 0.0007 -0.0048 -0.0046
PROBES 105 THRU 112 0.0009 0.0009 -0.0040 0.0007 0.0013 0.0006 0.0006 0.0004
PROBES 113 THRU 120 0.0006 0.0004 0.0003 0.0312 0.0003 0.0006 -0.0012
PROBES 121 THRU 126 0.0013 0.0002 0.0027 0.0003 0.0004 0.0021

AXIAL POSITION # 33, AXIAL LOCATION = 4.75 INCHES, SALT OBSERVED =0.0022 G-SALT/LEH-WATER, SALT MISSED =0.0027 G-SALT/LEH-WATER

PROBES 1 THRU 8 0.0010 -0.0039 -0.0002 0.0011 0.0009 0.0005 0.0007 0.0013
PROBES 9 THRU 16 0.0009 0.0013 0.0011 0.0012 0.0008 0.0005 0.0004 0.0005
PROBES 17 THRU 24 0.0003 0.0003 0.0005 0.0003 0.0012 0.0006 -0.0016 -0.0026
PROBES 25 THRU 32 0.0005 0.0009 -0.0016 -0.0013 0.0012 0.0004 0.0004 0.0006
PROBES 33 THRU 40 -0.0041 0.0014 -0.0044 -0.0067 0.0014 0.0033 0.0013 0.0016
PROBES 41 THRU 48 0.0005 -0.0030 0.0010 0.0008 0.0008 0.0015 0.0024 0.0010
PROBES 49 THRU 56 0.0007 -0.0052 0.0006 0.0010 -0.0028 -0.0061 0.0010 0.0055
PROBES 57 THRU 64 0.0020 -0.0047 0.0002 0.0014 0.0009 0.0003 -0.0046 -0.0022
PROBES 65 THRU 72 0.0004 -0.0024 0.0010 0.0008 0.0005 0.0005 0.0014 0.0009
PROBES 73 THRU 80 0.0011 0.0005 0.0009 0.0004 0.0010 -0.0047 0.0010 0.0009
PROBES 81 THRU 88 0.0012 0.0015 0.0013 0.0021 0.0010 0.0003 0.0007 0.0003
PROBES 89 THRU 96 0.0006 0.0009 0.0018 0.0127 0.0266 0.2457 0.0137
PROBES 97 THRU 104 -0.0033 0.0006 0.0004 0.0008 -0.0029 0.0006 -0.0046
PROBES 105 THRU 112 0.0009 0.0012 -0.0026 0.0008 0.0013 0.0008 0.0034
PROBES 113 THRU 120 0.0005 0.0006 0.0006 0.0292 0.0003 0.0004 -0.0001 -0.0027

PROBES 121 THRU 126 0.0012 0.0003 0.0025 0.0003 0.0004 3.0016

AXIAL POSITION # 34, AXIAL LOCATION = 4.50 INCHES, SALT OBSERVED = 0.0015 G-SALT/LBM-WATER, SALT MISSED = 0.0034 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0009	-0.0034	-0.0002	0.0012	0.0010	0.0005	0.0017	0.0013
PROBES 9 THRU 16	0.0010	0.0008	0.0016	0.0013	0.0007	0.0005	0.0036	0.0034
PROBES 17 THRU 24	0.0003	0.0003	0.0005	0.0003	0.0012	0.0007	-0.0021	-0.0026
PROBES 25 THRU 32	0.0006	0.0010	-0.0020	-0.0025	0.0010	-0.0042	0.0010	0.0037
PROBES 33 THRU 40	-0.0018	0.0013	-0.0044	-0.0074	0.0012	0.0002	0.0016	0.0014
PROBES 41 THRU 48	0.0005	-0.0030	0.0010	0.0008	0.0001	0.0015	0.0024	0.0013
PROBES 49 THRU 56	0.0008	-0.0057	0.0008	0.0012	-0.0005	-0.0105	0.0023	0.0057
PROBES 57 THRU 64	0.0024	-0.0052	0.0002	0.0012	0.0004	0.0004	-0.0037	-0.0037
PROBES 65 THRU 72	0.0005	-0.0034	0.0012	0.0005	0.0004	0.0005	0.0016	0.0022
PROBES 73 THRU 80	0.0009	0.0004	0.0011	0.0004	0.0010	-0.0047	0.0010	0.0009
PROBES 81 THRU 88	0.0012	0.0015	0.0010	0.0017	0.0011	0.0003	0.0007	0.0003
PROBES 89 THRU 96	0.0008	0.0007	0.0010	0.0016	0.0017	0.0524	0.1448	0.0669
PROBES 97 THRU 104	-0.0045	0.0006	-0.0004	0.0009	-0.0029	0.0006	-0.0043	-0.0051
PROBES 105 THRU 112	0.0009	0.0012	-0.0026	0.0009	0.0013	0.0008	0.0009	0.0004
PROBES 113 THRU 120	0.0005	0.0009	0.0003	0.0155	0.0005	0.0004	0.0004	-0.0037
PROBES 121 THRU 126	0.0009	0.0007	0.0029	0.0004	0.0005	0.0002		

AXIAL POSITION # 35, AXIAL LOCATION = 4.25 INCHES, SALT OBSERVED = 0.0009 G-SALT/LBM-WATER, SALT MISSED = 0.0040 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0011	-0.0043	-0.0002	0.0014	0.0012	0.0005	0.0008	0.0012
PROBES 9 THRU 16	0.0014	0.0014	0.0016	0.0012	0.0009	0.0005	0.0006	0.0005
PROBES 17 THRU 24	0.0002	0.0004	0.0035	0.0007	0.0007	0.0009	-0.0042	-0.0035
PROBES 25 THRU 32	0.0012	0.0012	-0.0020	-0.0034	0.0011	-0.0047	0.0006	0.0008
PROBES 33 THRU 40	-0.0027	0.0015	-0.0049	-0.0074	0.0011	0.0002	0.0014	0.0016
PROBES 41 THRU 48	0.0006	-0.0025	0.0012	0.0022	0.0001	0.0014	0.0026	0.0009
PROBES 49 THRU 56	0.0011	-0.0057	0.0008	0.0009	-0.0028	-0.0068	0.0011	0.0060
PROBES 57 THRU 64	0.0014	-0.0052	0.0002	0.0009	0.0003	0.0003	-0.0041	-0.0022
PROBES 65 THRU 72	0.0004	-0.0029	0.0014	0.0006	0.0005	0.0005	0.0019	0.0020
PROBES 73 THRU 80	0.0011	0.0004	0.0009	0.0004	0.0010	-0.0047	0.0010	0.0010
PROBES 81 THRU 88	0.0018	0.0015	0.0010	0.0015	0.0011	0.0003	0.0006	0.0023
PROBES 89 THRU 96	0.0010	0.0003	0.0013	0.0005	0.0170	0.1006	0.0445	0.0085
PROBES 97 THRU 104	-0.0045	0.0006	0.0004	0.0009	-0.0033	0.0009	-0.0043	-0.0051
PROBES 105 THRU 112	0.0009	0.0012	-0.0026	0.0008	0.0014	0.0006	0.0006	0.0004
PROBES 113 THRU 120	0.0005	0.0006	0.0007	-0.0003	0.0005	0.0004	0.0013	-0.0037
PROBES 121 THRU 126	0.0009	0.0006	0.0029	0.0004	0.0004	-0.0008		

AXIAL POSITION # 36, AXIAL LOCATION = 4.00 INCHES, SALT OBSERVED = 0.0008 G-SALT/LBM-WATER, SALT MISSED = 0.0041 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0008	-0.0034	-0.0002	0.0011	0.0010	0.0004	0.0015	0.0011
PROBES 9 THRU 16	0.0008	0.0010	0.0011	0.0013	0.0007	0.0005	0.0006	0.0004
PROBES 17 THRU 24	0.0003	0.0003	0.0005	0.0003	0.0008	0.0005	-0.0006	-0.0035
PROBES 25 THRU 32	0.0012	0.0012	-0.0016	-0.0025	0.0012	-0.0042	0.0010	0.0037
PROBES 33 THRU 40	-0.0018	0.0013	-0.0044	-0.0088	0.0012	0.0002	0.0012	0.0016
PROBES 41 THRU 48	0.0006	-0.0039	0.0012	0.0020	0.0000	0.0014	0.0026	0.0008
PROBES 49 THRU 56	0.0013	-0.0063	0.0006	0.0010	-0.0028	-0.0068	0.0011	0.0057
PROBES 57 THRU 64	0.0024	-0.0052	0.0002	0.0009	0.0008	0.0003	-0.0041	-0.0018
PROBES 65 THRU 72	0.0005	-0.0019	0.0013	0.0006	0.0005	0.0005	0.0019	0.0020
PROBES 73 THRU 80	0.0011	0.0004	0.0009	0.0004	0.0010	-0.0042	0.0009	0.0010
PROBES 81 THRU 88	0.0010	0.0012	0.0010	0.0017	0.0010	0.0003	0.0005	0.0091
PROBES 89 THRU 96	0.0009	0.0007	0.0009	0.0009	0.0183	0.1074	0.0109	0.0052
PROBES 97 THRU 104	-0.0045	0.0007	0.0005	0.0006	-0.0020	0.0015	-0.0048	-0.0051
PROBES 105 THRU 112	0.0009	0.0011	-0.0045	0.0009	0.0015	0.0007	0.0008	0.0004
PROBES 113 THRU 120	0.0005	0.0007	0.0029	-0.0013	0.0008	0.0004	-0.0001	-0.0027
PROBES 121 THRU 126	0.0012	0.0006	0.0027	0.0005	0.0005	-0.0007		

AXIAL POSITION # 37, AXIAL LOCATION = 3.75 INCHES, SALT OBSERVED = 0.0715 G-SALT/LBM-WATER, SALT MISSED = -0.0666 G-SALT/LBM-WATER

PROBES 1 THRU 8	0.0012	-0.0043	-0.0002	0.0014	0.0015	0.0006	0.0009	0.0012
PROBES 9 THRU 16	0.0014	0.0014	0.0017	0.0012	0.0008	0.0005	0.0005	0.0005
PROBES 17 THRU 24	0.0003	0.0003	0.0005	0.0004	0.0012	0.0007	-0.0037	0.0035
PROBES 25 THRU 32	0.0009	0.0011	-0.0025	-0.0030	0.0016	-0.0047	0.0006	0.0023
PROBES 33 THRU 40	-0.0031	0.0014	-0.0059	-0.0047	0.0014	0.0003	0.0016	0.0017
PROBES 41 THRU 48	0.0010	-0.0034	0.0010	0.0013	0.0001	0.0015	0.0020	0.0009
PROBES 49 THRU 56	0.0011	-0.0057	0.0008	0.0008	-0.0043	-0.0061	0.0014	0.0060
PROBES 57 THRU 64	0.0016	-0.0057	0.0002	0.0009	0.0010	0.0015	-0.0051	-0.0022
PROBES 65 THRU 72	0.0005	-0.0029	0.0012	0.0006	0.0004	0.0005	0.0015	0.0014
PROBES 73 THRU 80	0.0006	0.0002	0.0014	0.0005	0.0014	-0.0025	0.0010	0.0012
PROBES 81 THRU 88	0.0021	0.0055	0.0030	-0.0000	0.0142	0.1278	0.0123	0.0020
PROBES 89 THRU 96	0.0041	0.0038	-0.0000	0.0494	-0.0113	0.0035	0.0038	-0.0128
PROBES 97 THRU 104	-0.0171	0.0004	0.0047	0.0004	-0.0068	0.0050	-0.0294	-0.0158
PROBES 105 THRU 112	0.0010	0.0003	0.0123	0.0003	0.0014	0.0002	0.0026	0.0009
PROBES 113 THRU 120	0.0011	0.0014	0.0127	0.0085	0.0036	0.0007	1.8975	1.6321
PROBES 121 THRU 126	1.0706	0.9474	1.1618	0.9846	1.0226	1.0734		

THE FOLLOWING PROBES HAVE FAILED AND WERE NOT INCLUDED IN THE MASS BALANCE CALCULATIONS:

AXIAL CONCENTRATION PROFILES PLOTTED FOR THE FOLLOWING SUBCHANNELS:

85	86	87	88
89	90	91	92
93	94	95	96
115	116	117	118

Appendix 6

HEATED ROD SPECIFICATIONS

A letter follows which was sent to Watlow Electric Manufacturing Company requesting a cost estimate for heated rods with the given specifications. The specifications are based on suggestions by E. U. Khan.

Room 5-308
Massachusetts Institute
of Technology
Cambridge, Mass 02139
8 October, 1974

Mr. R. M. Wrob
Watlow Electric Manufacturing Co.
12001 Lackland Road
St. Louis, Missouri 63141
314-878-4600

Dear Mr. Wrob;

Enclosed are the specifications for the heaters proposed for the experiment which I am doing under an AEC contract. Please give me an estimate for the two power levels and the two heated lengths noted. Also enclosed is a sketch of the experimental setup to help you in making your estimate. Thank you.

Carl H. Oosterman
Graduate Student
Nuclear Engineering Dept.

TEST SECTION

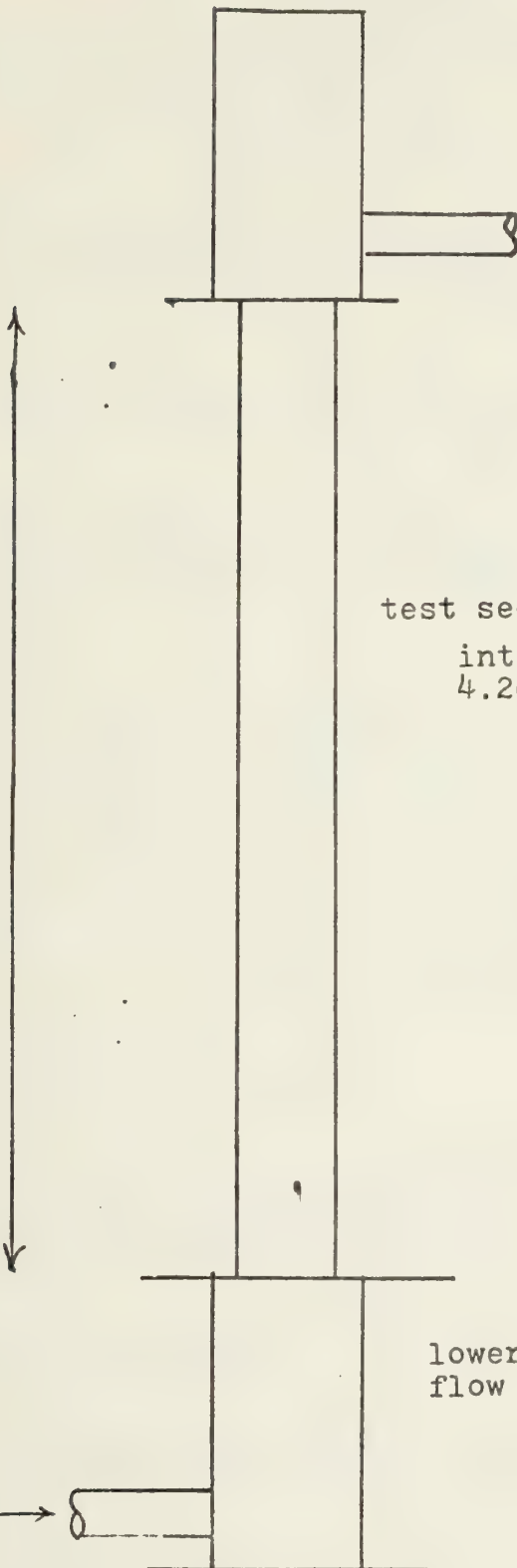
open plenum

gravity drain

test section

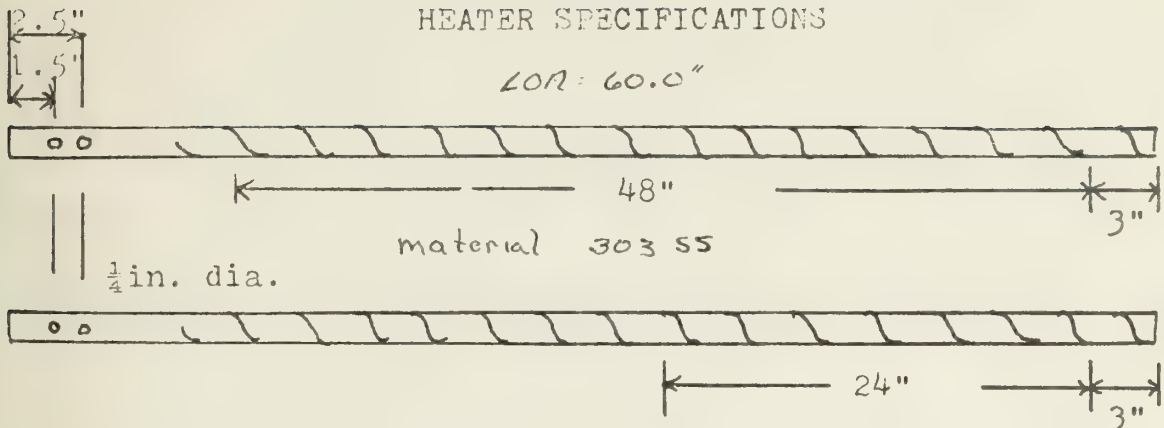
interior is hexagonal
4.266 inches across flats60
incheslower plenum with
flow straightenersinlet from
pumps

Enclosure(1)



HEATER SPECIFICATIONS

LOR: 60.0"



- Case 1 Total power - 50 kw. with flat power distribution
 Heated length - a) 48 inches as shown
 b) 24 inches as shown
- Case 2 Total power - 30 kw. with flat power distribution
 Heated length - a) 48 inches as shown
 b) 24 inches as shown

Fluid - water

Power Source - 230v - 600amp DC (no voltage control)

Outside Rod Diameter - 0.500 ± 0.005 inches

Wire Wrap - see Encl(3)

Maximum Operating Temperature - 325 F

Number of Cycles - 10 min. up to as many as reasonable

Core - Magnesium Oxide

Insulation - Boron Nitride

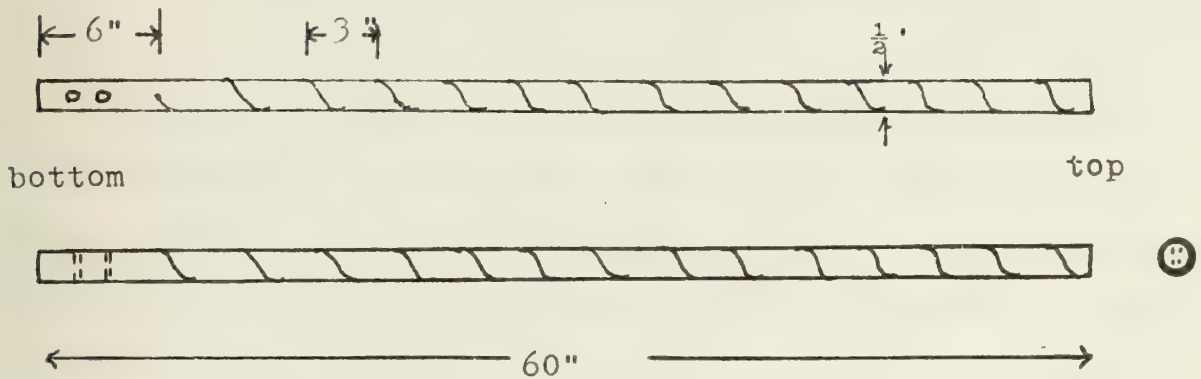
At least 6 feet of lead from the heater connection is required. This lead must be properly insulated against penetration by water as the heater may set in water for long periods of time (150psi at a flow of 300gpm).

Two terminals at one end is preferred although a terminal at each end is acceptable.

Two $\frac{1}{4}$ -inch holes are required in the rod as shown for locating and support in the test section.

Enclosure(2)

WIRE WRAP DETAIL



Each rod must be wound with a helical wire wrap. The wire wrap starts 6 inches from the bottom end of the rod and ends at the top end. The wire is 0.031 inches in diameter - the pitch of the helix is 4 inches. The wrap starts at the same angular orientation as the two $\frac{1}{4}$ inch holes. Wire is wrapped clockwise as viewed from the bottom of the rod

Enclosure(3)

Appendix 7

SHAVED WIRE WRAP GEOMETRY CALCULATIONS

The unshaved wire wrap geometry calculations are done using constant cross-sectional areas of the wire wrap and rods (see sect. 2.1.1.2). With shaved wires the wire cross-sectional areas are not constant axially. Therefore, a method using weighted cross-sectional areas is used. The weighting factors are found by determining the volumes of wire present, per lead length, before and after shaving. The ratio of the latter to the former is the weighting factor used in the equations which follow. It is assumed that wires are shaved so that the wire is flattened with a surface parallel to the duct face it contacts. The volume of wire lost to shaving is found by calculating the cross-sectional area of wire shaved off at five locations equally spaced along the length of the wire shaved. Using the five cross-sectional areas, the volume shaved is found using Simpson's Rule. Simpson's Rule is appropriate because it uses second order curves between points in determining the volume (see Fig. A2-1).

1. Angle over which wire is shaved

$$\theta = 2 \cos^{-1} \left(\frac{D_p'' + D_s''}{D_p + 2D_s} \right) \quad (A2-1)$$

2. Shaved length

$$L_s = \frac{\theta}{360} \left[(2\pi r)^2 + h^2 \right]^{1/2} \quad (\text{A2-2})$$

$$r = \frac{D_p + D_s}{2} \quad (\text{A2-3})$$

3. Cross-sectional areas shaved off

A. Center of shaved length

$$a_{s3} = \frac{\pi D_s^2}{8} \quad (\text{A2-4})$$

B. Quarter points of shaved length

$$a_{s2} = a_{s4} = \frac{\pi D_s^2 \alpha}{4(360)} - \frac{D_s^2}{8} \sin \alpha \quad (\text{A2-5})$$

where

$$\alpha = \cos^{-1} \left\{ \left| \frac{D_p + 2D_s}{D_s} \right| - \left| \frac{D_p + D_s}{D_s \cos \theta/2} \right| \right\} \quad (\text{A2-6})$$

C. Beginning and end of shaved length

$$a_{s1} = a_{s5} = 0$$

4. Simpson's Rule for volume shaved per wire wrap lead length

$$V_s = \frac{L_s}{12} (a_{s1} + 4a_{s2} + 2a_{s3} + 4a_{s4} + a_{s5}) \quad (\text{A2-7})$$

5. Wire volume per pitch before shaving

$$V = \frac{\pi D_s^2}{4} \left[(2\pi r)^2 + h^2 \right]^{1/2} \quad (\text{A2-8})$$

$$r = (D_p + D_s)/2 \quad (\text{A2-9})$$

6. Shaved wire factor, Edge subchannel

$$S_e = \frac{V - V_s}{V} S \quad (\text{A2-10})$$

7. Shaved wire factor, corner subchannel

$$S_c = \frac{V - 2V_s}{V} S \quad (\text{A2-11})$$

A similar approach is used to find the new wetted perimeters. The arc of the areas shaved are found for 5 positions along the shaved length for each pitch. Simpson's Rule is used again to find the resultant surface area lost. This is compared to the total unshaved wire surface area to give a wetted perimeter factor.

1. Arc of area shaved

- A. Center of shaved length

$$\beta_3 = \frac{\pi D_s}{2} \quad (\text{A2-12})$$

- B. Quarter points of shaved length

$$\beta_2 = \beta_3 = \frac{D_s}{2} \frac{\alpha}{57.3} \quad (\text{A2-13})$$

C. Ends of shaved length

$$\beta_1 = \beta_5 = 0 \quad (\text{A2-14})$$

2. Simpson's Rule for surface area shaved

$$A_s = \frac{L_s}{12} (\beta_1 + 4\beta_2 + 2\beta_3 + 4\beta_4 + \beta_5) \quad (\text{A2-15})$$

3. Wire wrap surface area before shaving

$$A = \left[(2\pi r)^2 + h^2 \right]^{1/2} D_s \quad (\text{A2-16})$$

4. Wetted perimeter factor, Edge subchannel

$$W_e = \frac{A - A_s}{A} \quad (\text{A2-17})$$

5. Wetter perimeter factor, Corner subchannel

$$W_c = \frac{A - 2A_s}{A} \quad (\text{A2-18})$$

The adjusted equations for the shaved wire wrap are listed below.

$$A_T = \frac{\sqrt{3}}{2} D_f^2 \quad (\text{A2-19})$$

$$D_f = 2 \left[\frac{\sqrt{3}}{2} N_R P + \frac{D_p}{2} + \frac{D_s}{2} \right] \quad (\text{A2-20})$$

$$A_{FT} = N_1 A_1 + N_2 A_2 + N_3 A_3 \quad (\text{A2-21})$$

$$P_T = N_1 P_1 + N_2 P_2 + N_3 P_3 \quad (\text{A2-22})$$

Unit Subdivision Dimensions

1. Interior - unchanged (see Sect. 2.1.1.2)

2. Edge

Area for flow

$$A_2 = P\left(\frac{D_p}{2} + g\right) + \frac{\pi D_p^2}{8} + S_e \frac{\pi}{8} D_s^2 \quad (\text{A2-23})$$

Wetted Perimeter

$$P_2 = \frac{\pi}{2} D_p + P + \frac{1}{2} W_e \pi D_s \quad (\text{A2-24})$$

3. Corner

Area for flow

$$A_3 = 2 \left\{ \frac{1}{2} \left[\frac{D_p}{2} + g \right] \left[\frac{D_\ell - PN_R}{2} \right] \right\} - \frac{ND_p^2}{48} - S_c \frac{ND_s^2}{24} \quad (\text{A2-25})$$

Wetted Perimeter

$$P_3 = \frac{\pi}{6} D_p + D_\ell - PN_R + W_c \frac{\pi}{6} D_s \quad (\text{A2-26})$$

For $h = 4$ in.

$$D_s = 0.032 \text{ in.}$$

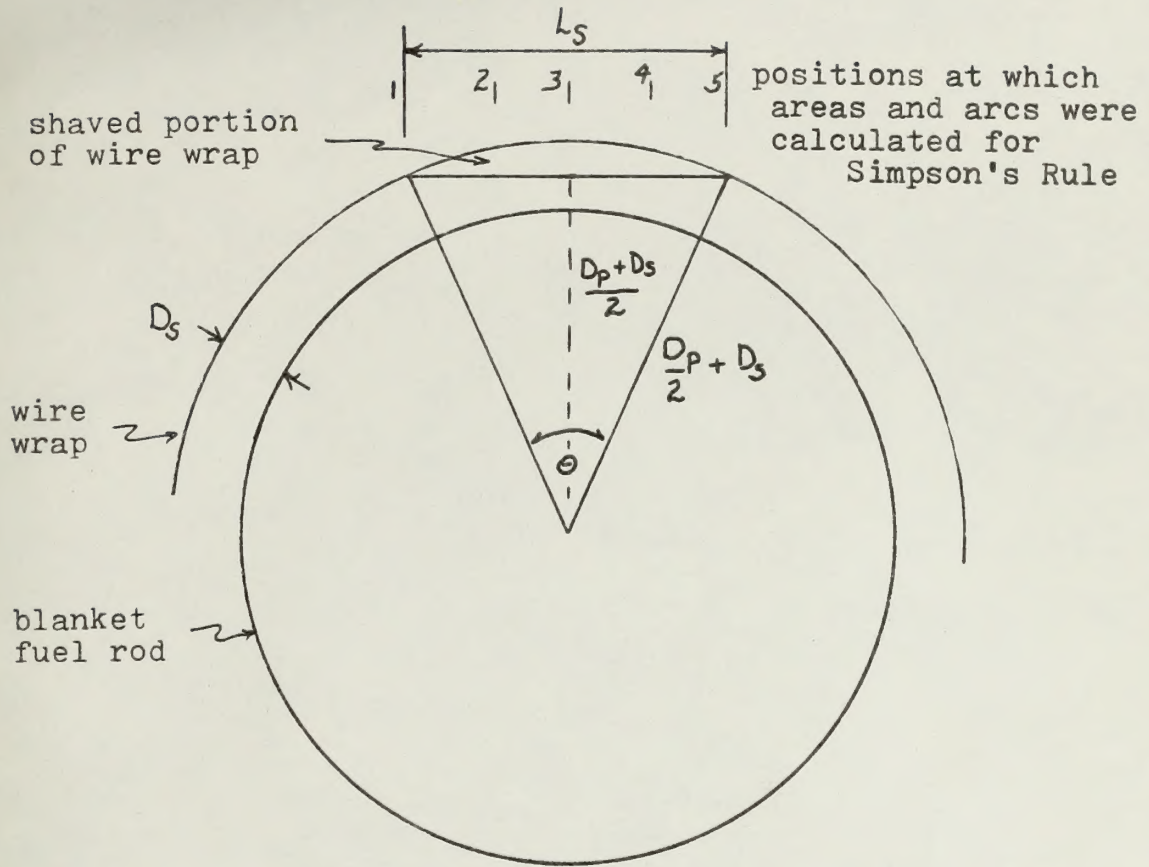
$$D_p = 0.502 \text{ in.}$$

$$S_e = 0.969$$

$$S_c = 0.939$$

$$W_e = .964$$

$$W_c = .928$$



End View of rod and wire wrap

Cross-section of wire

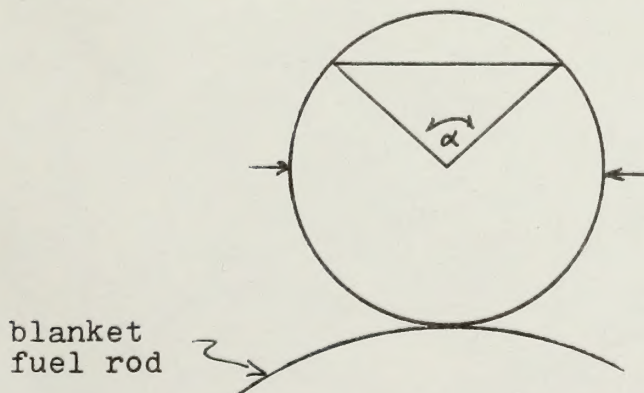


Figure A7-1

Thesis
05832
pt.2

Oosterman

An experimental investigation of coolant mixing in a wire wrapped LMFBR blanket subassembly.

163976

Thesis
05832
pt.2

Oosterman

An experimental investigation of coolant mixing in a wire wrapped LMFBR blanket subassembly.

163976

thes05832pt.2

An experimental investigation of coolant



3 2768 001 97360 5

DUDLEY KNOX LIBRARY